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HACNE40	HACNE40R	990	229 - 426	3165						
HACNF21	HACNF21R	991	3 - 542	3166	Asp-30 to Thr-37, Lys-81 to Glu-87.					
HACNF41	HACNF41R	992	2 - 91	3167	Ile-13 to Gly-18.					
HACN147	HACN147R	993	39 - 500	3168	Val-23 to Lys-30, Tyr-40 to Asn-50, Lys-63 to Lys-68, Leu-92 to Asn-102.	AR089: 18, AR060: 15, AR104: 14, AR096: 9, AR055: 6, AR061: 4				
HACN186	HACN186R	994	239 - 370	3169		L0754: 12, L0740: 8, L0731: 8, S0003: 6, L0649: 6, H0620: 5, S0214: 5, L0766: 5,				

L0803: 5, L0805: 5, H0545: 4, L0748: 4, H0341: 3, S0444: 3, H0486: 3, H0012: 3, H0644: 3, H0551: 3, L0662: 3, L0653: 3, L0663: 3, S0126: 3, S0206: 3, L0779: 3, L0757: 3, L0758: 3, H0294: 2, S0212: 2, S0376: 2, S0360: 2, S0410: 2, H0580: 2, H0632: 2, H0156: 2, L0105: 2, L0471: 2, H0494: 2, H0647: 2, S0002: 2, L0646: 2, L0771: 2, L0794: 2, L0776: 2, L0807: 2, L0438: 2, H0547: 2, H0672: 2, S0330: 2, H0626: 2, S3014: 2, L0750: 2, L0752: 2, L0759: 2, S0026: 2, H0624: 1, H0686: 1, H0685: 1, H0713: 1, H0717: 1, S0116: 1, H0664: 1, H0638: 1, S0418: 1, S0420: 1, L0005: 1, S0356: 1, S0358: 1, S0476: 1,
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HADD29	HADDD29R	995	181 - 342	3170	Asn-14 to Thr-26.		
HADET44	HADET44R	996	2 - 304	3171			
HAHGU75	HAHGU75R	997	1 - 501	3172			
HAHHD12	HAHHD12R	998	1 - 96	3173	Leu-3 to Met-9, Gln-24 to Thr-32.		
HALSG11	HALSG11R	999	2 - 364	3174	Ser-25 to Cys-36, Gln-39 to Asp-56.		
HANGA96	HANGA96R	1000	40 - 246	3175	Asn-49 to Asp-54.		
HAOSA43	HAOSA43R	1001	61 - 222	3176			
					L0759: 8, S0010: 7, L0742: 7, L0455: 6, S0007: 5, L0809: 4, L0439: 4, H0013: 3, L0768: 3, L0753: 3, H0686: 2, S0134: 2, S0222: 2, H0052: 2, H0024: 2, L0769: 2, L0638: 2, L0521: 2, L0794: 2, L0438: 2, L0589: 2, L0608: 2.		

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HAOSB87	HAOSB87R	1002	1 - 348	3177	Val-77 to Val-86.				L0766: 8, L0803: 7, L0731: 7, L0758: 5, S0358: 4, S0360: 4, L0794: 4, H0547: 4, S0440: 3, L0662: 3, L0659: 3, L0809: 3, L0666: 3, L0663: 3, S0374: 3, L0755: 3, L0596: 3, H0543: 3, H0583: 2, H0004: 2, H0622: 2, L0194: 2, H0038: 2, S0422: 2, L0771: 2, L0551: 2, L0774: 2, L0655: 2, L0526: 2, L0665: 2, H0659: 2, L0747: 2, L0750: 2, L0756: 2, S0436: 2, H0624: 1, H0170: 1, H0159: 1, H0686: 1, H0685: 1,			
HAOSC40	HAOSC40R	1003	55 - 327	3178	Pro-69 to Leu-76.							

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HAOSE70	HAOSE70R	1004	85 - 273	3179										
HAOSF68	HAOSF68R	1005	1 - 630	3180										

HAOSG95	HAOSG95R	1006	51 - 485	3181	Arg-5 to Arg-17, Asp-25 to Val-31.			
HAOSI79	HAOSI79R	1007	1 - 543	3182	Val-7 to Gln-13, Thr-20 to Arg-26, Lys-34 to Phe-40, Arg-46 to Lys-51.			
HAOSJ27	HAOSJ27R	1008	2 - 166	3183	Lys-27 to Gln-39, Gln-47 to Thr-52.			
HAOSJ33	HAOSJ33R	1009	3 - 353	3184	Leu-3 to Gln-14, Ser-95 to Ala-105.			
HAOSJ73	HAOSJ73R	1010	1 - 114	3185	Pro-24 to Val-49, Tyr-51 to Leu-56.	H0585: 27, H0556: 17, L0595: 15, L0591: 13, L0593: 13, H0046: 12, H0543: 12, H0521: 11, L0747: 11, L0596: 11, H0265: 10, H0040: 10, H0266: 9, H0038: 9, H0494: 9, L0588: 9, H0656: 8, H0581: 8, H0617: 8, L0664: 8, H0519: 8, L0601: 8, L0163: 7, H0083: 7, H0529: 7, L0665: 7, L0602: 7, H0657: 6, H0599: 6, H0618: 6, H0318: 6, H0551: 6, L0666: 6, H0547: 6, H0542: 6, H0141: 5, H0402: 5, S0358: 5.		
HAOSK38	HAOSK38R	1011	1 - 303	3186				

S0360: 5, S0046: 5, H0013: 5, H0052: 5, H0616: 5, H0087: 5, H0264: 5, T0041: 5, T0042: 5, S0440: 5, L0662: 5, L0774: 5, L0783: 5, L0748: 5, L0751: 5, L0758: 5, H0445: 5, L0599: 5, L0608: 5, H0341: 4, S0420: 4, S0354: 4, H0619: 4, S0222: 4, H0039: 4, H0213: 4, H0560: 4, L0521: 4, L0663: 4, L0565: 4, L0750: 4, L0752: 4, L0362: 4, L0615: 3, H0686: 3, H0650: 3, S0356: 3, S0045: 3, H0438: 3, H0575: 3, H0253: 3, S0010: 3, H0251: 3, H0123: 3, T0023: 3, L0456: 3, H0124: 3, H0561: 3, H0509: 3, H0641: 3, H0646: 3, L0598: 3, L0646: 3, L0768: 3, L0655: 3, H0144: 3, H0689: 3, H0659: 3, H0666: 3, S0152: 3,
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HAOSL36	HAOSL36R	1012	3 - 269	3187	S0418: 10, L0749: 9, L0809: 7, S0406: 6, L0766: 5, L0748: 5, L0740: 5, L0752: 5, L0731: 5, S0360: 4, L0509: 4, L0665: 4, L0754: 4, S0424: 4, H0638: 3, S0420: 3, S0410: 3, H0013: 3, H0318: 3, H0545: 3, H0050: 3, H0040: 3, L0664: 3, H0658: 3, H0521: 3, L0750: 3, H0556: 2, H0341: 2, H0580: 2, S0222: 2, H0333: 2, L0471: 2, H0620: 2, H0687: 2, H0553: 2, H0673: 2, H0674: 2, H0668: 2, H0551: 2, H0494: 2, H0560: 2, S0438: 2, S0440: 2, H0509: 2, L0769: 2, L0638: 2,

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HAOSL47	HAOSL47R	1013	2 - 409	3188	Thr-12 to Thr-17, Leu-31 to Met-36, Pro-97 to Lys-103, Gln-126 to Trp-136.	H0056: 1, H0623: 1, L0564: 1, T0041: 1, S0150: 1, H0633: 1, S0144: 1, H0538: 1, S0210: 1, S0002: 1, L0369: 1, L0506: 1, L0500: 1, L0501: 1, L0646: 1, L0374: 1, L0765: 1, L0363: 1, L0381: 1, L0803: 1, L0653: 1, L0493: 1, L0526: 1, L0783: 1, L0383: 1, L0666: 1, L0663: 1, S0006: 1, H0593: 1, S0126: 1, H0711: 1, H0682: 1, H0670: 1, H0672: 1, H0651: 1, S0152: 1, S0454: 1, S0262: 1, L0356: 1, S0390: 1, L0747: 1, L0780: 1, L0753: 1, L0755: 1, L0757: 1, H0707: 1, L0485: 1, L0599: 1, L0608: 1, L0601: 1, H0667: 1 and H0008: 1.			
						L0748: 23, S0358: 12, H0616: 10, L0750: 8, L0752: 8, L0596: 8, H0031: 7, H0494: 7,			

L0731: 7, L0758: 7, H0556: 6, H0024: 6, L0770: 6, L0588: 6, S0360: 5, S0046: 5, S0476: 5, L0774: 5, H0547: 5, L0439: 5, L0740: 5, L0749: 5, L0755: 5, S0420: 4, S0250: 4, H0039: 4, H0135: 4, H0551: 4, L0766: 4, H0144: 4, S0126: 4, L0742: 4, L0743: 4, L0747: 4, L0757: 4, L0591: 4, H0170: 3, H0663: 3, S0444: 3, H0486: 3, H0200: 3, H0188: 3, H0038: 3, H0100: 3, L0769: 3, L0773: 3, L0775: 3, S0031: 3, H0445: 3, H0136: 3, H0542: 3, H0543: 3, H0624: 2, H0717: 2, S0212: 2, H0484: 2, H0255: 2, S0418: 2, S0408: 2, S0410: 2, H0393: 2, H0351: 2, H0411: 2, S0222: 2, H0592: 2, H0574: 2, H0635: 2, H0427: 2,						
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H0036: 2, H0318: 2, H0545: 2, H0009: 2, H0178: 2, H0014: 2, H0644: 2, H0617: 2, H0032: 2, H0124: 2, H0068: 2, H0040: 2, H0067: 2, H0413: 2, H0623: 2, T0041: 2, H0042: 2, S0440: 2, S0150: 2, H0641: 2, H0529: 2, L0502: 2, L0500: 2, L0761: 2, L0764: 2, L0662: 2, L0767: 2, L0776: 2, L0657: 2, L0659: 2, L0782: 2, L0783: 2, H0690: 2, H0659: 2, H0672: 2, S0328: 2, H0134: 2, H0555: 2, S3012: 2, L0754: 2, L0759: 2, L0590: 2, L0592: 2, L0593: 2, L0594: 2, H0265: 1, T0002: 1, H0686: 1, S0040: 1, S0134: 1, H0583: 1, H0657: 1, H0341: 1, S0180: 1, H0483: 1, H0661: 1, H0664: 1, S0356: 1, S0442: 1, S0376: 1,
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H0580: 1, S0007: 1, S0132: 1, L0717: 1, H0431: 1, H0370: 1, H0392: 1, H0600: 1, H0586: 1, H0333: 1, L0622: 1, T0060: 1, T0109: 1, H0013: 1, H0250: 1, H0069: 1, L0021: 1, H0599: 1, H0575: 1, H0618: 1, S0182: 1, H0251: 1, H0263: 1, H0596: 1, L0738: 1, H0041: 1, H0081: 1, H0012: 1, H0620: 1, L0163: 1, S0388: 1, S0051: 1, H0375: 1, H0266: 1, H0271: 1, H0687: 1, H0290: 1, S0003: 1, S0022: 1, H0428: 1, L0194: 1, H0553: 1, H0628: 1, H0673: 1, H0169: 1, L0456: 1, H0708: 1, S0366: 1, S0036: 1, H0163: 1, H0090: 1, H0591: 1, H0087: 1, L0060: 1, H0379: 1, H0412: 1, H0560: 1, S0382: 1, S0466: 1, S0438: 1,
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HAOSP50	HAOSP50R	1014	183 - 380	3189	Set-53 to Pro-60.	H0509: 1, S0210: 1, L0520: 1, L0762: 1, L0501: 1, L0765: 1, L0771: 1, L0521: 1, L0768: 1, L0387: 1, L0498: 1, L0375: 1, L0806: 1, L0655: 1, L0661: 1, L0807: 1, L0527: 1, L0382: 1, L0809: 1, L0519: 1, L0663: 1, S0428: 1, S0374: 1, H0723: 1, H0519: 1, H0593: 1, H0658: 1, H0648: 1, H0651: 1, S0330: 1, H0539: 1, S0378: 1, H0710: 1, S0152: 1, H0521: 1, H0522: 1, S0044: 1, H0576: 1, S0390: 1, S0028: 1, S0124: 1, S0032: 1, L0753: 1, S0434: 1, L0485: 1, L0581: 1, L0595: 1, L0366: 1, S0106: 1, H0668: 1, S0026: 1, H0653: 1, H0665: 1, S0194: 1, H0423: 1, H0422: 1, S0456: 1 and H0352: 1.
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HAOSS30	HAOSS30R	1015	3 - 509	3190	Pro-11 to His-21, Glu-30 to Glu-41, Arg-55 to Ser-64, Arg-89 to Thr-96, Cys-99 to Glu-106, Pro-116 to His-124.	L0439: 16, S0222: 5, H0733: 4, L0770: 4, L0809: 4, L0747: 4, S0356: 3, L0471: 3, S0366: 3, L0766: 3, S0436: 3, H0556: 2, L0622: 2, H0373: 2, S0208: 2, H0266: 2, H0687: 2, H0617: 2, L0637: 2, L0803: 2, L0789: 2, H0518: 2, L0748: 2, S0434: 2, L0604: 2, H0686: 1, S0040: 1, H0583: 1, S0001: 1, S0420: 1, H0729: 1, H0722: 1, H0619: 1, H0333: 1, H0318: 1, H0007: 1, H0052: 1, H0009: 1, L0163: 1, H0051: 1, H0428: 1, H0181: 1, S0364: 1, H0708: 1, H0135: 1, H0413: 1, S0440: 1, L5575: 1, L0764: 1, L0375: 1, L0378: 1, L0652: 1, L0438: 1, S0126: 1, H0658: 1, H0539: 1, L0740: 1, L0749: 1, L0779: 1, L0752: 1 and		
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HAOSU85	HAOSU85R	1016	2 - 508	3191	His-1 to Phe-7, Pro-16 to His-26, Asp-44 to Ser-52.	L0758: 1, H0686: 2, L0362: 2, H0100: 1, H0646: 1 and L0766: 1.		
HAOSW92	HAOSW92R	1017	93 - 317	3192		L0777: 8, L0754: 6, L0662: 4, L0766: 4, S0136: 3, S0406: 2, L0744: 2, L0780: 2, L0752: 2, L0594: 2, H0356: 1, H0686: 1, S0418: 1, S0376: 1, S0360: 1, H0580: 1, H0587: 1, H0486: 1, S0280: 1, L0021: 1, L0105: 1, H0428: 1, L0055: 1, H0212: 1, H0040: 1, S0422: 1, L0639: 1, L5575: 1, L0772: 1, L0372: 1, L0764: 1, L0794: 1, L0522: 1, L0803: 1, L0659: 1, L0529: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0684: 1, H0659: 1, H0670: 1, L0748: 1, L0756: 1, L0757: 1, L0758: 1, L0759: 1, L0596: 1, L0589: 1, L0605: 1, L0599: 1,		

HAOTB47	HAOTB47R	1018	3 - 107	3193		H0667: 1, H0542: 1 and H0506: 1.		
HAOTB58	HAOTB58R	1019	336 - 485	3194	Ile-3 to Asp-9.	L0756: 6, L0777: 6, S0408: 5, L0770: 5, H0547: 5, S0360: 4, L0665: 4, H0624: 3, H0687: 3, H0170: 2, H0686: 2, L0717: 2, H0497: 2, L0163: 2, L0794: 2, L0766: 2, S0126: 2, L0752: 2, L0731: 2, H0657: 1, H0656: 1, L0808: 1, H0341: 1, S0282: 1, S0442: 1, S0354: 1, S0045: 1, S0222: 1, H0486: 1, L0586: 1, H0156: 1, H0575: 1, H0318: 1, H0581: 1, H0052: 1, L0738: 1, H0266: 1, H0553: 1, H0169: 1, S0036: 1, H0087: 1, H0413: 1, S0422: 1, L0598: 1, L0520: 1, L0763: 1, L0638: 1, L0764: 1, L0803: 1, L0776: 1, L0658: 1, L0659: 1, L0809: 1, L0789: 1.		

HAOTD32	HAOTD32R	1020	209 - 340	3195				L0664: 1, S0374: 1, H0520: 1, H0659: 1, H0670: 1, H0672: 1, H0436: 1, S0028: 1, L0439: 1, H0445: 1, L0589: 1, L0608: 1, S0192: 1, H0543: 1, H0423: 1, S0424: 1 and L0600: 1. L0747: 28, S0192: 21, L0659: 17, L0740: 12, L0757: 10, S0360: 9, H0545: 9, L0662: 9, L0775: 9, L0665: 9, L0439: 9, L0664: 8, S0358: 7, L0666: 7, L0750: 7, L0601: 7, L0777: 6, L0731: 6, L0471: 5, S0003: 5, H0038: 5, H0547: 5, S0206: 5, L0748: 5, L0756: 5, L0752: 5, L0758: 5, S0011: 5, S0026: 5, T0049: 4, L0717: 4, H0575: 4, H0012: 4, H0620: 4, H0083: 4, H0090: 4, L0770: 4, L0764: 4, L0794: 4, L0766: 4, L0804: 4, L0375: 4,
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S0444: 1, H0676: 1, H0208: 1, H0619: 1, H0393: 1, S6022: 1, H0369: 1, H0550: 1, H0455: 1, H0587: 1, H0333: 1, H0331: 1, H0574: 1, H0559: 1, T0039: 1, H0013: 1, S0280: 1, H0097: 1, H0042: 1, T0082: 1, S0474: 1, H0581: 1, S0049: 1, H0251: 1, H0309: 1, H0235: 1, H0011: 1, H0051: 1, H0021: 1, H0510: 1, H0594: 1, S0334: 1, H0687: 1, S0250: 1, S0214: 1, H0119: 1, T0006: 1, H0628: 1, H0617: 1, L0055: 1, H0032: 1, H0169: 1, H0124: 1, H0598: 1, H0551: 1, T0067: 1, H0128: 1, L0475: 1, H0560: 1, H0561: 1, S0352: 1, S0438: 1, S0440: 1, H0132: 1, H0641: 1, H0647: 1, H0646: 1, S0344: 1, S0426: 1, L0598: 1,
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HAOTE06	HAOTE06R	1021	2-472	3196	H0529: 1, L0762: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1, L0388: 1, L0650: 1, L0378: 1, L0805: 1, L0653: 1, L0527: 1, L0558: 1, L0636: 1, L0526: 1, L0647: 1, L0367: 1, L0787: 1, L0788: 1, H0144: 1, H0691: 1, H0520: 1, H0519: 1, H0365: 1, H0435: 1, H0658: 1, S0380: 1, H0521: 1, H0696: 1, S0044: 1, H0436: 1, S3012: 1, L0786: 1, L0780: 1, L0755: 1, S0260: 1, H0444: 1, H0343: 1, H0595: 1, S0436: 1, L0480: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1 and S0196: 1.		
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HAOTF84	HAOTF84R	1022	68 - 208	3197	Lys-15 to Gln-22.	L0665: 2, H0670: 2, L0755: 2, L0608: 2, S0026: 2, H0170: 1, H0686: 1, H0717: 1, H0656: 1, S0444: 1, H0580: 1, H0156: 1, H0178: 1, H0014: 1, H0252: 1, H0615: 1, H0674: 1, H0090: 1, H0063: 1, L0637: 1, L0372: 1, L0764: 1, L0765: 1, L0662: 1, L0766: 1, L0649: 1, L0650: 1, L0806: 1, L0653: 1, L0657: 1, L0659: 1, L0517: 1, L0529: 1, L5622: 1, L0789: 1, L0790: 1, L0663: 1, L0664: 1, H0144: 1, H0723: 1, S0126: 1, H0659: 1, S0378: 1, S0152: 1, L0741: 1, L0777: 1, S0434: 1, L0594: 1, L0595: 1 and H0667: 1.		
						L0757: 13, L0731: 10, L0754: 7, L0770: 4, S0360: 3, H0553: 3, H0551: 3, L0769: 3, L0662: 3, L0659: 3,		

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HAOTF90	HAOTF90R	1023	3 - 176	3198		L0783: 1, L0809: 1, L0787: 1, L0666: 1, L0663: 1, H0144: 1, H0701: 1, S0374: 1, L0565: 1, H0547: 1, S0126: 1, H0682: 1, H0435: 1, H0659: 1, H0648: 1, H0539: 1, S0378: 1, S0406: 1, H0626: 1, S3012: 1, L0748: 1, L0749: 1, L0758: 1, L0759: 1, L0588: 1, L0589: 1, L0592: 1, L0593: 1, L0594: 1, H0653: 1, S0192: 1, S0194: 1 and H0352: 1.		
						L0439: 5, S0026: 5, H0624: 4, H0413: 4, S0418: 3, H0580: 3, H0373: 3, H0038: 3, H0494: 3, H0144: 3, H0686: 2, S0358: 2, H0261: 2, S0222: 2, H0013: 2, H0581: 2, H0052: 2, H0545: 2, H0031: 2, H0529: 2, L0664: 2, S0027: 2, L0747: 2, L0777: 2, L0752: 2, L0755: 2,		

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HAOTG75	HAOTG75R	1024	2 - 328	3199	Glu-1 to Gln-8, Pro-31 to Trp-36.	H0521: 1, H0631: 1, L0740: 1, L0759: 1, S0260: 1, H0445: 1, L0596: 1, L0581: 1, L0604: 1, L0594: 1, H0667: 1 and L0697: 1, L0747: 28, S0192: 21, L0659: 17, L0740: 12, L0757: 10, S0360: 9, H0545: 9, L0662: 9, L0775: 9, L0665: 9, L0439: 9, L0664: 8, S0358: 7, L0666: 7, L0750: 7, L0601: 7, L0777: 6, L0731: 6, L0471: 5, S0003: 5, H0038: 5, H0547: 5, S0206: 5, L0748: 5, L0756: 5, L0752: 5, L0758: 5, S0011: 5, S0026: 5, T0049: 4, L0717: 4, H0575: 4, H0012: 4, H0620: 4, H0083: 4, H0090: 4, L0770: 4, L0764: 4, L0794: 4, L0766: 4, L0804: 4, L0375: 4, L0806: 4, L0754: 4, L0779: 4, L0596: 4, L0588: 4, L0581: 4,
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S0002: 2, L0369: 2, L0520: 2, L0763: 2, L0637: 2, L0761: 2, L0372: 2, L0767: 2, L0649: 2, L0803: 2, L0776: 2, L0382: 2, L0565: 2, H0690: 2, H0659: 2, H0670: 2, H0660: 2, H0648: 2, H0672: 2, S0404: 2, S0406: 2, H0555: 2, H0478: 2, H0626: 2, H0627: 2, L0070: 2, S3014: 2, S0032: 2, L0741: 2, L0590: 2, L0592: 2, L0599: 2, L0593: 2, L0595: 2, H0543: 2, L0600: 2, H0170: 1, H0171: 1, H0265: 1, T0002: 1, H0140: 1, S0470: 1, H0294: 1, L0785: 1, S0212: 1, S0282: 1, H0484: 1, H0671: 1, H0663: 1, H0664: 1, H0662: 1, H0638: 1, L0005: 1, S0442: 1, S0444: 1, H0676: 1, H0208: 1, H0619: 1, H0393: 1, S6022: 1,
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H0369: 1, H0550: 1, H0455: 1, H0587: 1, H0333: 1, H0331: 1, H0574: 1, H0559: 1, T0039: 1, H0013: 1, S0280: 1, H0097: 1, H0042: 1, T0082: 1, S0474: 1, H0581: 1, S0049: 1, H0251: 1, H0309: 1, H0235: 1, H0011: 1, H0051: 1, H0021: 1, H0510: 1, H0594: 1, S0334: 1, H0687: 1, S0250: 1, S0214: 1, H0119: 1, T0006: 1, H0628: 1, H0617: 1, L0055: 1, H0032: 1, H0169: 1, H0124: 1, H0598: 1, H0551: 1, T0067: 1, H0128: 1, L0475: 1, H0560: 1, H0561: 1, S0352: 1, S0438: 1, S0440: 1, H0132: 1, H0641: 1, H0647: 1, H0646: 1, S0344: 1, S0426: 1, L0598: 1, H0529: 1, L0762: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1,
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HAOTH28	HAOTH28R	1025	33 - 164	3200			L0388: 1, L0650: 1, L0378: 1, L0805: 1, L0653: 1, L0527: 1, L0558: 1, L0636: 1, L0526: 1, L0647: 1, L0367: 1, L0787: 1, L0788: 1, H0144: 1, H0691: 1, H0520: 1, H0519: 1, H0365: 1, H0435: 1, H0658: 1, S0380: 1, H0521: 1, H0696: 1, S0044: 1, H0436: 1, S3012: 1, L0786: 1, L0780: 1, L0755: 1, S0260: 1, H0444: 1, H0343: 1, H0595: 1, S0436: 1, L0480: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1 and S0196: 1.
HAOT107	HAOT107R	1026	3 - 398	3201	Pro-1 to Arg-6, Met-12 to Ser-21.		
HAOTT79	HAOTT79R	1027	3 - 392	3202			
HAOTU79	HAOTU79R	1028	15 - 455	3203			
HAOTW22	HAOTW22R	1029	1 - 201	3204	Ser-35 to Ser-41, Ile-50 to Gly-55.		
HAOTW30	HAOTW30R	1030	376 - 564	3205	Arg-1 to Gly-7.		
HAOTW65	HAOTW65R	1031	113 - 475	3206			H0686: 2 and S0358: 1.

HAPNK45	HAPNK45R	1032	68 - 232	3207				
HAPPR43	HAPPR43R	1033	200 - 313	3208	Lys-1 to Ser-6, Ala-26 to Thr-31.			
					Ser-1 to Pro-11.			
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HAZAD40	HAZAD40R	1044	191 - 445	3219	Ser-54 to Gly-59, Gln-133 to Ala-147, Gln-153 to Gln-164. Val-9 to Gly-24.	S0360: 1, H0486: 1, L0761: 1, L0803: 1, L0774: 1, L0666: 1, L0663: 1, L0663: 1, H0520: 1, H0690: 1, H0435: 1 and L0747: 1.		
HAZAE44	HAZAE44R	1045	3 - 512	3220	Gln-12 to Thr-20, Cys-39 to Asn-45, Thr-60 to Gly-66, Lys-99 to Asp-106, Asp-119 to Pro-127.	H0424: 16, S0380: 13, L0748: 13, L0750: 12, S0440: 10, S0444: 9, L0755: 9, L0758: 9, S0192: 9, H0484: 8, S0358: 8, H0545: 8, L0809: 8, L0747: 8, L0749: 8, S0360: 7, S0410: 7, S0406: 7, L0752: 7, L0766: 6, S0374: 6, L0751: 6, L0754: 6, H0423: 6, S0442: 5, H0672: 5, S0378: 5, S0404: 5, L0759: 5, H0556: 4, S0356: 4, S0376: 4, H0546: 4, H0150: 4, S0438: 4, L0775: 4, L0776: 4, L0518: 4, S0328: 4, L0740: 4,		
HAZAG23	HAZAG23R	1046	2 - 466	3221				

	S0434: 4, L0599: 4, H0422: 4, H0685: 3, S0116: 3, H0483: 3, H0638: 3, H0486: 3, H0318: 3, H0309: 3, H0597: 3, H0617: 3, H0494: 3, S0144: 3, L0771: 3, L0767: 3, L0768: 3, L0794: 3, L0774: 3, L0806: 3, L0783: 3, L0528: 3, H0593: 3, S0126: 3, H0690: 3, H0658: 3, H0670: 3, S0330: 3, H0696: 3, S0028: 3, L0742: 3, L0439: 3, L0731: 3, L0757: 3, H0543: 3, H0149: 2, S0218: 2, H0341: 2, H0306: 2, H0402: 2, S0420: 2, H0722: 2, S0476: 2, H0392: 2, H0333: 2, H0101: 2, H0581: 2, H0421: 2, H0204: 2, H0231: 2, H0009: 2, H0023: 2, H0024: 2, H0271: 2, H0031: 2, H0644: 2, H0166: 2, H0124: 2, H0068: 2, H0616: 2,
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	H0059: 2, H0560: 2, H0509: 2, S0344: 2, S0422: 2, L0769: 2, L0764: 2, L0765: 2, L0651: 2, L0657: 2, H0689: 2, H0684: 2, H0639: 2, H0660: 2, H0648: 2, H0521: 2, S0044: 2, S0392: 2, L0743: 2, S0436: 2, L0588: 2, L0590: 2, H0542: 2, S0446: 2, L0600: 2, H0008: 2, H0624: 1, H0170: 1, H0171: 1, S0040: 1, S6024: 1, H0295: 1, H0294: 1, S0114: 1, H0657: 1, H0656: 1, L0760: 1, S0212: 1, H0255: 1, H0663: 1, S0418: 1, S0354: 1, H0676: 1, S0408: 1, T0008: 1, H0637: 1, H0730: 1, H0393: 1, S0278: 1, H0369: 1, S0222: 1, H0370: 1, H0330: 1, H0592: 1, H0586: 1, H0574: 1, L0622: 1, H0013: 1, H0427: 1, S0280: 1,
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HAZAG92	HAZAG92R	1047	282 - 467	3222	Pro-48 to Gly-59.	L0521: 1, L0662: 1, L0364: 1, L5564: 1, L0378: 1, L0655: 1, L0379: 1, L0656: 1, L0659: 1, L0540: 1, L0526: 1, L0384: 1, L0544: 1, L0541: 1, L0789: 1, L0793: 1, L0666: 1, L0664: 1, L0665: 1, H0726: 1, H0547: 1, H0683: 1, H0651: 1, H0539: 1, H0518: 1, S0350: 1, H0555: 1, H0576: 1, H0627: 1, S3014: 1, S0027: 1, S0032: 1, L0756: 1, L0786: 1, L0777: 1, L0753: 1, H0445: 1, L0591: 1, L0592: 1, L0608: 1 and L0603: 1.		
HAZAH79	HAZAH79R	1048	138 - 515	3223	Gly-2 to Ser-9, Pro-46 to Cys-60, Pro-62 to His-69, Pro-81 to Thr-91, Ala-96 to Ser-101.			
HAZAI23	HAZAI23R	1049	1 - 165	3224	Lys-11 to Ser-16, Arg-20 to Glu-28.	L0747: 21, L0748: 18, L0750: 15, S0408: 11, L0771: 10, L0775: 9,		

L0742: 8, S0410: 6, L0756: 6, L0752: 6, L0758: 6, L0731: 5, H0341: 4, L0766: 4, L0803: 4, L0776: 4, S0126: 4, H0170: 3, H0486: 3, S0346: 3, H0204: 3, H0545: 3, L0471: 3, S0440: 3, L0769: 3, L0772: 3, L0804: 3, H0214: 3, S0404: 3, L0744: 3, L0754: 3, L0757: 3, H0506: 3, H0171: 2, H0685: 2, S0420: 2, S0356: 2, S0358: 2, S0045: 2, H0587: 2, H0069: 2, L0021: 2, H0575: 2, T0048: 2, H0318: 2, H0581: 2, H0597: 2, H0009: 2, H0014: 2, H0510: 2, H0622: 2, H0031: 2, S0364: 2, H0591: 2, H0056: 2, H0494: 2, S0438: 2, L0770: 2, L0761: 2, L0521: 2, L0649: 2, L0650: 2, L0526: 2, L0792: 2, L0666: 2, L0665: 2,				
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H0690: 2, H0522: 2, H0134: 2, L0743: 2, L0740: 2, L0759: 2, L0587: 2, H0422: 2, H0624: 1, T0002: 1, H0294: 1, H0657: 1, H0484: 1, H0255: 1, H0661: 1, H0664: 1, H0176: 1, H0402: 1, S0442: 1, S0376: 1, H0637: 1, S0046: 1, S0476: 1, H0393: 1, L0717: 1, H0351: 1, S0278: 1, S0222: 1, H0392: 1, H0438: 1, H0331: 1, L0622: 1, H0635: 1, S0182: 1, S0474: 1, H0173: 1, H0052: 1, H0596: 1, H0327: 1, H0546: 1, H0150: 1, H0565: 1, H0123: 1, H0081: 1, H0051: 1, S0051: 1, H0083: 1, H0594: 1, H0028: 1, S0214: 1, H0252: 1, H0428: 1, H0213: 1, H0644: 1, H0617: 1, H0163: 1, H0090: 1, H0616: 1, H0087: 1, H0488: 1,						
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HAZA187	HAZA187R	1050	264 - 428	3225	Phe-34 to Lys-41.	H0413: 1, T0069: 1, S0038: 1, T0041: 1, T0042: 1, H0512: 1, H0560: 1, H0646: 1, S0344: 1, S0422: 1, H0529: 1, L0520: 1, L0763: 1, L0646: 1, L0764: 1, L0773: 1, L0768: 1, L0522: 1, L0774: 1, L0784: 1, L0806: 1, L0805: 1, L0653: 1, L0655: 1, L0379: 1, L0807: 1, L0659: 1, L0517: 1, L0783: 1, L0519: 1, L0789: 1, L0791: 1, L0664: 1, S0053: 1, H0683: 1, H0659: 1, H0658: 1, S0328: 1, H0710: 1, H0696: 1, S0406: 1, L0751: 1, L0749: 1, L0786: 1, L0780: 1, L0753: 1, L0755: 1, S0260: 1, L0366: 1, H0653: 1, H0667: 1, H0542: 1, H0543: 1 and H0712: 1.		
HAZA187	HAZA187R	1050	264 - 428	3225	Phe-34 to Lys-41.	L0659: 6, L0662: 5, S0212: 4, S0003: 4, H0551: 4, S0192: 4,		

S0376: 3, S0440: 3, S0374: 3, H0521: 3, S0040: 2, S0418: 2, S0444: 2, H0580: 2, H0486: 2, H0575: 2, L0471: 2, H0024: 2, H0553: 2, L0637: 2, S0126: 2, S0406: 2, S0028: 2, L0748: 2, L0754: 2, L0757: 2, S0434: 2, L0590: 2, S0242: 2, H0686: 1, H0685: 1, H0664: 1, S0420: 1, L0005: 1, S0360: 1, S0408: 1, S0045: 1, S0476: 1, S0278: 1, H0357: 1, H0586: 1, T0039: 1, H0635: 1, H0427: 1, L0022: 1, H0004: 1, H0505: 1, S0049: 1, H0251: 1, H0263: 1, T0003: 1, H0373: 1, H0051: 1, H0356: 1, H0622: 1, H0644: 1, H0090: 1, H0412: 1, H0623: 1, H0560: 1, H0641: 1, H0633: 1, S0142: 1, S0208: 1, L0773: 1, L0521: 1,
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						L0649: 1, L0803: 1, L0775: 1, L0528: 1, L0663: 1, L0664: 1, H0144: 1, L0565: 1, H0693: 1, H0520: 1, H0547: 1, H0689: 1, H0690: 1, H0435: 1, H0659: 1, H0658: 1, H0670: 1, H0660: 1, S0152: 1, H0555: 1, H0436: 1, S0432: 1, S0390: 1, S3014: 1, L0439: 1, L0758: 1, L0686: 1, S0436: 1, L0588: 1, S0196: 1, L0698: 1 and H0293: 1.		
HAZA189	HAZA189R	1051	3 - 260	3226	Ser-54 to Ser-60, Ile-69 to Gly-74.	S0420: 2, H0575: 2, S0418: 1, L0005: 1, S0356: 1, H0619: 1, H0097: 1, H0581: 1, H0012: 1, H0373: 1, H0266: 1, S0250: 1, T0042: 1, H0625: 1, H0561: 1, S0438: 1, S0150: 1, H0641: 1, S0210: 1, H0693: 1, H0519: 1, H0690: 1, L0748: 1 and H0653: 1.		
HAZA172	HAZA172R	1052	1 - 612	3227	Ala-17 to Asp-36, Thr-56 to Met-61.			

HAZAQ80	HAZAQ80R	1053	27 - 389	3228	Thr-41 to Lys-46, Thr-53 to Gly-59, Ala-77 to Asp-84.				L0748: 31, L0747: 18, L0752: 17, L0758: 17, L0777: 15, L0766: 13, H0014: 9, L0776: 9, L0751: 9, L0740: 7, L0779: 7, L0754: 6, H0040: 5, L0769: 5, S0330: 5, L0439: 5, L0756: 5, L0599: 5, S0356: 4, H0587: 4, H0622: 4, L0783: 4, L0744: 4, L0745: 4, L0749: 4, L0755: 4, S0031: 4, H0624: 3, S0222: 3, H0156: 3, S0010: 3, S0049: 3, S0051: 3, S0003: 3, H0591: 3, H0038: 3, L0763: 3, L0770: 3, L0662: 3, L0551: 3, L0803: 3, L0664: 3, H0144: 3, H0547: 3, H0521: 3, L0757: 3, L0759: 3, L0596: 3, L0608: 3, L0595: 3, S0114: 2, S0116: 2, H0341: 2, S0418: 2,
HAZAW22	HAZAW22R	1054	2 - 172	3229	Ser-1 to Leu-14, Glu-39 to Thr-47.				

S0360: 2, H0619: 2, H0393: 2, H0013: 2, H0575: 2, H0318: 2, H0581: 2, H0051: 2, S0388: 2, H0428: 2, T0006: 2, H0673: 2, H0169: 2, H0674: 2, S0036: 2, H0616: 2, H0551: 2, H0268: 2, L0625: 2, L0768: 2, L0649: 2, L0775: 2, L0806: 2, L0805: 2, H0539: 2, L0731: 2, S0260: 2, H0445: 2, S0434: 2, L0605: 2, L0594: 2, H0543: 2, H0170: 1, H0171: 1, H0716: 1, S6024: 1, S0134: 1, S0218: 1, H0583: 1, H0650: 1, H0657: 1, L0785: 1, S0212: 1, S0282: 1, S0035: 1, S0030: 1, H0305: 1, H0638: 1, S0348: 1, S0420: 1, L0005: 1, S0442: 1, H0340: 1, S0476: 1, H0645: 1, S0300: 1, H0411: 1, S0278: 1, H0549: 1, H0431: 1,
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H0409: 1, H0331: 1, H0574: 1, H0486: 1, S0346: 1, H0421: 1, H0052: 1, H0251: 1, L0032: 1, H0085: 1, H0545: 1, H0457: 1, L0041: 1, H0050: 1, H0024: 1, H0373: 1, S6028: 1, S0250: 1, H0615: 1, H0688: 1, H0039: 1, S0364: 1, H0361: 1, L0455: 1, H0376: 1, H0135: 1, H0090: 1, H0634: 1, T0004: 1, T0042: 1, S0014: 1, H0560: 1, H0625: 1, S0438: 1, H0509: 1, H0646: 1, H0529: 1, L0637: 1, L5575: 1, L0667: 1, L0646: 1, L0764: 1, L0771: 1, L5574: 1, L0774: 1, L0655: 1, L0527: 1, L0657: 1, L0659: 1, L0809: 1, L0789: 1, L0792: 1, L0793: 1, L0663: 1, L0665: 1, S0053: 1, H0650: 1, H0519: 1, S0126: 1, H0711: 1,
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						H0690: 1, H0660: 1, S0136: 1, H0522: 1, S0406: 1, H0555: 1, S3012: 1, S0027: 1, S0028: 1, L0743: 1, L0750: 1, L0604: 1, L0361: 1, S0026: 1, H0653: 1, S0192: 1, S0196: 1, H0542: 1, H0423: 1, S0412: 1 and S0424: 1.			S0003: 154, S0214: 41, H0545: 38, L0651: 34, H0546: 17, L0747: 15, L0757: 14, L0731: 10, L0659: 7, L0776: 6, L0749: 6, H0544: 5, S0122: 5, H0365: 5, L0740: 5, S0360: 4, L0771: 4, L0662: 4, L0768: 4, H0150: 3, H0169: 3, L0750: 3, L0779: 3, H0661: 2, S0376: 2, H0163: 2, S0144: 2, L0764: 2, L0766: 2, L0649: 2, L0775: 2, L0653: 2, L0666: 2, S0126: 2, L0754: 2, L0759: 2, H0171: 1, H0419: 1,
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HAZBI39	HAZBI39R	1056	56-424	3231	Ser-29 to Ile-39, Gly-42 to Trp-48, Lys-82 to Val-92.	L0758: 3, H0068: 2, L0749: 2, L0756: 2, L0731: 2, S0026: 2, H0136: 2, S0040: 1, L0005: 1, H0351: 1, H0318: 1, H0052: 1, H0530: 1, H0266: 1, S0003: 1, H0412: 1, T0004: 1, T0042: 1, S0422: 1, H0529: 1, H0517: 1, L0762: 1, L0763: 1, L0770: 1,				H0411: 1, H0357: 1, H0486: 1, L0021: 1, H0309: 1, H0231: 1, L0738: 1, H0099: 1, H0364: 1, H0039: 1, S0366: 1, H0038: 1, S0142: 1, S0002: 1, L0762: 1, L0640: 1, L0763: 1, L0637: 1, L0646: 1, L0773: 1, L0523: 1, L0655: 1, L0379: 1, L0783: 1, L0663: 1, L0664: 1, L0565: 1, S0008: 1, H0690: 1, S0328: 1, H0696: 1, L0755: 1, L0758: 1, H0595: 1 and H0506: 1.		
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						L0769: 1, L0766: 1, L0775: 1, L0809: 1, H0698: 1, H0690: 1, S0390: 1, S0028: 1, L0742: 1, L0748: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0759: 1, S0308: 1, H0542: 1, H0543: 1 and H0423: 1.			
HAZBJ69	HAZBJ69R	1057	3 - 323	3232		Gly-1 to Pro-6, Lys-58 to Asn-71.			
HBAGS73	HBAGS73R	1058	207 - 371	3233		Pro-15 to Thr-22, Lys-28 to Arg-35.			
HBBBE13	HBBBE13R	1059	2 - 199	3234					
HBCPI58	HBCPI58RA	1060	3 - 245	3235					
HBJAC26	HBJAC26R	1061	267 - 446	3236					
							L0665: 3, H0318: 2, L0659: 2, S0330: 2, L0439: 2, L0599: 2, H0583: 1, H0038: 1, L0761: 1, L0771: 1, L0387: 1, L0655: 1, L0666: 1, L0779: 1, L0777: 1, L0758: 1 and L0608: 1.		
HBIFS85	HBIFS85R	1062	94 - 261	3237		Asn-30 to Ile-35.			
HBJHY72	HBJHY72RP 00B	1063	1 - 297	3238		Gly-1 to Pro-38, Leu-45 to Gly-64.			
							AR052: 12, AR055: 8, AR053: 8, AR033: 6, AR089: 6, AR061: 6, AR060: 5, AR096: 3.		

ARI04: 1, AR039: 0	L0794: 5, L0766: 3, L0759: 3, S0212: 2, H0318: 2, L0803: 2, L0804: 2, L0378: 2, L0665: 2, L0438: 2, L0439: 2, L0749: 2, L0591: 2, L0599: 2, L0362: 2, H0686: 1, S0342: 1, S0134: 1, H0656: 1, H0669: 1, S0358: 1, H0370: 1, H0069: 1, S0346: 1, H0251: 1, H0050: 1, H0373: 1, H0266: 1, S0022: 1, L0483: 1, H0553: 1, H0163: 1, H0090: 1, H0116: 1, H0509: 1, S0426: 1, H0529: 1, L0769: 1, L0638: 1, L0646: 1, L0648: 1, L0768: 1, L0381: 1, L0375: 1, L0653: 1, L0659: 1, L0782: 1, L0809: 1, L0793: 1, H0691: 1, H0435: 1, H0659: 1, H0648: 1, S0152: 1, S0390: 1, S0027: 1, S0028: 1, L0777: 1,
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HBIMN13	HBIMN13R	1064	145 - 231	3239	Glu-8 to Asn-13, Arg-16 to Thr-29.	L0731: 1, S0260: 1, L0596: 1, S0192: 1 and S0424: 1.		
HBXCG52	HBXCG52R	1065	59 - 547	3240	Lys-23 to Lys-32, Ser-72 to Leu-80, Ser-90 to Gly-95, Leu-98 to His-103, Ser-106 to Gly-113, Ile-121 to Phe-128.	S0280: 1 and S0038: 1.		
HBXFO08	HBXFO08R	1066	1 - 126	3241	Leu-2 to Val-10.			
HCACS53	HCACS53RP 00A	1067	145 - 343	3242	His-2 to Glu-28, Ala-37 to Gly-45, His-54 to Pro-62, Glu-69 to Thr-77.			
HCHAJ85	HCHAJ85R	1068	171 - 359	3243	Arg-1 to Arg-6, Phe-27 to Arg-32.			
HCHMM71	HCHMM71R	1069	2 - 322	3244		H0651: 9, L0601: 5, H0559: 4, H0494: 4, L0646: 3, H0484: 2, H0255: 2, S0358: 2, H0550: 2, H0309: 2, H0014: 2, H0188: 2, H0617: 2, H0646: 2, L0769: 2, L0644: 2, L0806: 2, H0689: 2, L0750: 2, L0603: 2, H0624: 1, H0171: 1, H0657: 1, H0663: 1.		

							S0360: 1, H0574: 1, H0257: 1, H0013: 1, H0635: 1, H0098: 1, H0253: 1, H0327: 1, H0545: 1, H0024: 1, H0181: 1, H0359: 1, S0150: 1, L0369: 1, L0771: 1, L0662: 1, L0766: 1, L0803: 1, L0661: 1, S0428: 1, H0670: 1, S0328: 1, L0748: 1, L0439: 1, L0758: 1 and H0543: 1.			
HCHMW20	HCHMW20R	1070	53 - 319	3245	Ser-1 to Thr-8, Glu-17 to Ala-32, Arg-39 to Trp-47.					
HCLBH21	HCLBH21R	1071	3 - 134	3246						
HCNDT49	HCNDT49R	1072	234 - 443	3247	Gln-17 to Pro-27.					L0439: 8, H0052: 7, L0748: 7, S0440: 5, L0758: 5, H0046: 4, H0038: 4, L0769: 4, S0442: 3, H0013: 3, H0253: 3, T0010: 3, L0774: 3, L0776: 3, H0144: 3, H0521: 3, S0404: 3, L0752: 3, L0731: 3, H0656: 2, S0358: 2, S0360: 2, S0222: 2, H0618: 2, H0620: 2, L0351: 2,

S0422: 2, L0764: 2, L0771: 2, L0783: 2, L0793: 2, H0658: 2, H0666: 2, L0751: 2, L0754: 2, L0745: 2, L0747: 2, L0750: 2, H0624: 1, H0265: 1, H0556: 1, H0686: 1, S0134: 1, S0212: 1, S0001: 1, H0254: 1, H0661: 1, S0354: 1, S0444: 1, S0408: 1, S0300: 1, S0278: 1, H0369: 1, H0370: 1, H0333: 1, H0574: 1, H0486: 1, H0036: 1, H0263: 1, H0597: 1, H0545: 1, H0572: 1, H0024: 1, S0388: 1, S0051: 1, S0250: 1, H0252: 1, H0428: 1, H0039: 1, H0644: 1, L0055: 1, H0674: 1, H0135: 1, H0087: 1, H0067: 1, H0488: 1, H0529: 1, L0763: 1, L0770: 1, L0761: 1, L0374: 1, L0662: 1, L0768: 1, L0766: 1, L0803: 1, L0775: 1,							
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							L0805: 1, L0653: 1, L0526: 1, L5622: 1, L0666: 1, L0664: 1, L0665: 1, S0053: 1, H0547: 1, H0682: 1, H0435: 1, H0670: 1, H0660: 1, H0648: 1, H0672: 1, S0328: 1, H0539: 1, S0152: 1, H0696: 1, S0044: 1, S0406: 1, H0631: 1, S3014: 1, S0028: 1, L0742: 1, L0749: 1, L0759: 1, S0436: 1, S0011: 1, S0192: 1, H0542: 1, H0423: 1, S0398: 1 and H0506: 1.			
HCOMA72	HCOMA72R	1073	25 - 273	3248	Arg-1 to Leu-10, Ser-32 to Ala-45, Ala-58 to Gly-68.		L0747: 15, L0750: 7, L0731: 7, L0588: 6, L0748: 5, L0439: 5, L0759: 5, H0150: 3, S0144: 3, L0666: 3, L0665: 3, L0752: 3, L0758: 3, L0591: 3, S6024: 2, T0049: 2, S0356: 2, H0674: 2, H0413: 2, S0142: 2,			
HCOMB04	HCOMB04R	1074	32 - 754	3249	Tyr-3 to Gly-10, Glu-19 to Trp-25.					

	L0770: 2, L0769: 2, L0774: 2, L0775: 2, L0657: 2, H0672: 2, S0328: 2, S0378: 2, L0605: 2, L0593: 2, H0624: 1, T0002: 1, H0638: 1, S0418: 1, L0005: 1, S0376: 1, S0444: 1, S0360: 1, H0675: 1, S0045: 1, H0393: 1, S0222: 1, H0441: 1, H0453: 1, H0333: 1, H0574: 1, H0486: 1, H0101: 1, L0021: 1, H0098: 1, T0010: 1, H0083: 1, H0266: 1, H0188: 1, S0003: 1, H0328: 1, H0615: 1, H0428: 1, T0006: 1, H0166: 1, H0598: 1, H0090: 1, H0063: 1, T0069: 1, H0509: 1, H0641: 1, S0002: 1, L0369: 1, L0372: 1, L0662: 1, L0794: 1, L0766: 1, L0803: 1, L0651: 1, L0655: 1, L0379: 1, L0656: 1, L0659: 1, L0782: 1, L0783: 1,
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HCOMD38	HCOMD38R	1075	3 - 275	3250	Pro-1 to Pro-9, Ile-43 to Lys-48.	L0788: 1, L0664: 1, L0565: 1, L0438: 1, H0547: 1, S0126: 1, H0435: 1, H0659: 1, H0658: 1, H0670: 1, H0522: 1, H0696: 1, L0740: 1, L0751: 1, L0745: 1, L0755: 1, L0757: 1, H0445: 1, H0343: 1, H0595: 1, L0596: 1, L0581: 1, L0599: 1 and S0192: 1.		
HCOMD61	HCOMD61R	1076	1 - 315	3251				
HCOMF10	HCOMF10R	1077	350 - 622	3252	Asn-10 to Val-16.	L0740: 6, L0666: 2, H0547: 2, L0751: 2, L0777: 2, H0483: 1, S0358: 1, S0444: 1, H0038: 1, L0770: 1, L0768: 1, L0774: 1, L0805: 1, L0658: 1, L0789: 1, H0520: 1, H0659: 1, H0670: 1, L0747: 1, L0779: 1 and L0758: 1.		
HCOMF52	HCOMF52R	1078	2 - 523	3253	Lys-11 to Thr-16, Arg-18 to Glu-24, Arg-31 to Leu-38, Phe-51 to Glu-56,	L0439: 7, L0748: 5, H0255: 4, H0253: 4, H0012: 3, H0620: 3, H0617: 3, L0783: 3,		

Glu-59 to Glu-67, Thr-102 to Thr-114, Leu-119 to Glu-124.	L0438: 3, H0618: 2, H0046: 2, L0769: 2, L0766: 2, L0532: 2, L0663: 2, H0521: 2, L0750: 2, L0777: 2, L0592: 2, H0543: 2, H0650: 1, S0212: 1, S0001: 1, H0483: 1, H0254: 1, H0638: 1, S0418: 1, S0358: 1, H0580: 1, S0468: 1, H0549: 1, H0559: 1, H0013: 1, S0280: 1, H0318: 1, H0052: 1, H0024: 1, H0252: 1, H0424: 1, H0553: 1, H0644: 1, H0124: 1, H0376: 1, H0135: 1, H0040: 1, H0087: 1, H0488: 1, T0042: 1, H0494: 1, H0509: 1, L0768: 1, L0388: 1, L0657: 1, L0659: 1, L0789: 1, L0352: 1, S0126: 1, H0689: 1, H0658: 1, H0670: 1, H0436: 1, H0478: 1, H0626: 1, L0742: 1, L0780: 1, L0731: 1, H0445: 1, L0608: 1.
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HCOMG28	HCOMG28R	I079	46 - 357	3254	Lys-1 to Arg-8, Asp-20 to Thr-26, Gly-35 to Glu-48, Leu-66 to Arg-72, Phe-83 to Tyr-88.	L0366: 1 and S0276: 1.		
HCOMG40	HCOMG40R	I080	29 - 373	3255	Trp-13 to Asp-19, Cys-29 to Gln-34, Ala-41 to Arg-52, Gly-54 to Gln-59, Arg-69 to Tyr-83.			
HCOMG82 HCOMH70	HCOMG82R HCOMH70R	I081 I082	223 - 436 21 - 167	3256 3257	Pro-13 to Pro-22.	H0670: 14, S0360: 9, L0657: 5, L0659: 4, L0809: 4, H0696: 4, L0777: 4, S0356: 3, L0764: 3, L0662: 3, S0374: 3, H0637: 2, H0411: 2, H0486: 2, L0762: 2, L0763: 2, L0521: 2, L0768: 2, L0774: 2, L0805: 2, L0666: 2, L0665: 2, H0659: 2, H0672: 2, H0710: 2, S0406: 2, L0744: 2, L0748: 2, H0686: 1, S0040: 1, H0713: 1, H0657: 1, H0662: 1, S0444: 1, S0408: 1, S0410: 1,		

							H0602: 1, H0643: 1, T0048: 1, H0263: 1, H0596: 1, H0014: 1, H0015: 1, H0594: 1, H0271: 1, H0687: 1, S0003: 1, S0214: 1, H0169: 1, H0674: 1, S0450: 1, H0649: 1, L0640: 1, L0646: 1, L0641: 1, L0773: 1, L0648: 1, L0388: 1, L0784: 1, L0806: 1, L0776: 1, L0655: 1, L0519: 1, L0530: 1, H0547: 1, H0689: 1, H0435: 1, H0648: 1, S0328: 1, S0330: 1, H0555: 1, H0627: 1, S0390: 1, S0028: 1, L0751: 1, L0779: 1, L0731: 1, S0434: 1, L0581: 1, L0362: 1 and H0667: 1.				
HCOMI30	HCOMI30R	1083	42 - 497	3258							
HCOMI37	HCOMI37R	1084	244 - 618	3259							
HCOML11	HCOML11R	1085	255 - 605	3260	Lys-1 to Gly-10, Pro-13 to Asn-23.						
HCOMM12	HCOMM12R	1086	138 - 338	3261			L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9,				

L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5, L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4, H0658: 4, L0747: 4, L0750: 4, L0757: 4, H0295: 3, T0049: 3, H0255: 3, L0622: 3, T0039: 3, H0253: 3, H0545: 3, L0163: 3, H0594: 3, H0188: 3, H0673: 3, H0100: 3, S0142: 3, L0372: 3, L0775: 3, L0776: 3, L0657: 3, L0382: 3, L0665: 3, H0672: 3, S0027: 3, L0742: 3, L0752: 3, S0260: 3, H0445: 3, L0596: 3, L0588: 3, L0599: 3, S0420: 2, H0637: 2, S0045: 2, S0132: 2, S0300: 2, S0278: 2, S0222: 2, H0431: 2, H0392: 2, H0599: 2,							
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S0418: 1, S0356: 1, T0007: 1, S0358: 1, S0007: 1, H0208: 1, H0441: 1, H0438: 1, H0587: 1, S0005: 1, L0623: 1, L0477: 1, T0114: 1, S0280: 1, L0021: 1, H0590: 1, H0004: 1, H0618: 1, S0010: 1, H0318: 1, S0049: 1, H0251: 1, H0596: 1, T0110: 1, H0327: 1, H0009: 1, H0123: 1, L0471: 1, H0006: 1, H0014: 1, H0051: 1, S0388: 1, H0510: 1, S0334: 1, H0687: 1, T0023: 1, T0006: 1, H0424: 1, H0182: 1, H0606: 1, H0383: 1, H0165: 1, H0166: 1, S0366: 1, H0135: 1, H0090: 1, T0067: 1, H0488: 1, H0412: 1, T0069: 1, S0112: 1, L0564: 1, H0494: 1, S0015: 1, H0561: 1, L0762: 1, L0640: 1, L0637: 1, L0761: 1, L0667: 1,							
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HCOMM55	HCOMM55R	1087	298 - 119	3262	Pro-10 to Leu-20, His-27 to Lys-40,			
HCOMO58	HCOMO58R	1088	1 - 336	3263	Phe-7 to Asp-29, Glu-31 to Lys-38, Thr-46 to Thr-52, Glu-65 to Arg-72,			
HCOMW52	HCOMW52R P00B	1089	3 - 443	3264				
HCOMX77	HCOMX77R	1090	166 - 492	3265				
HCONC18	HCONC18RP 00B	1091	3 - 161	3266				
HCONH28	HCONH28R	1092	76 - 267	3267		L0754: 3, H0624: 2, S0354: 2, H0124: 2, L0766: 2, L0751: 2, L0759: 2, S0116: 1, H0661: 1, H0098: 1, H0597: 1, L0157: 1, S0250: 1, S0003: 1, H0622: 1, H0553: 1, H0509: 1, L0521: 1, L0662: 1, L0768: 1, L0803: 1, L0657: 1, L0659: 1, L0666: 1, L0663: 1, H0144: 1, S0126: 1, H0670: 1, L0779: 1, L0777: 1, L0755: 1, L0589: 1 and L0362: 1.		
HCONK56	HCONK56R	1093	8 - 718	3268				
HCONK75	HCONK75R	1094	33 - 398	3269				

HCONL49	HCONL49R	1095	3 - 221	3270	His-23 to Lys-34, Arg-49 to Leu-57, Pro-59 to Ser-66.	L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8, H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3, H0331: 3, H0575: 3, L0471: 3, H0620: 3,
HCONL59	HCONL59R	1096	255 - 455	3271		

S0250: 3, H0032: 3, H0591: 3, L0598: 3, L0803: 3, L0653: 3, L0657: 3, H0670: 3, S0406: 3, H0555: 3, L0780: 3, L0605: 3, H0667: 3, H0717: 2, T0049: 2, S0212: 2, H0661: 2, S0376: 2, S0007: 2, H0208: 2, S0476: 2, H0645: 2, H0411: 2, H0437: 2, H0350: 2, H0386: 2, H0333: 2, H0599: 2, H0042: 2, H0545: 2, H0123: 2, H0105: 2, H0014: 2, H0051: 2, H0375: 2, L0142: 2, H0598: 2, H0135: 2, H0040: 2, S0372: 2, L0520: 2, L0640: 2, L0769: 2, L5566: 2, L0772: 2, L0646: 2, L0771: 2, L0363: 2, L0768: 2, L0375: 2, L0654: 2, L0776: 2, L0809: 2, L0438: 2, H0547: 2, H0519: 2, L0602: 2, L0743: 2, L0744: 2, L0439: 2,							
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L0758: 2, L0759: 2, L0588: 2, L0599: 2, L0361: 2, H0716: 1, H0294: 1, S0430: 1, S0298: 1, S0132: 1, H0351: 1, H0369: 1, S0222: 1, H0370: 1, H0392: 1, H0409: 1, H0587: 1, H0574: 1, H0485: 1, T0040: 1, T0060: 1, H0244: 1, L0021: 1, H0003: 1, H0036: 1, H0274: 1, H0253: 1, H0505: 1, H0251: 1, H0544: 1, H0546: 1, H0046: 1, H0081: 1, H0019: 1, T0003: 1, H0057: 1, H0015: 1, H0373: 1, H0275: 1, H0594: 1, S0003: 1, H0039: 1, H0111: 1, H0674: 1, S0364: 1, S0036: 1, H0090: 1, H0063: 1, H0087: 1, H0268: 1, H0412: 1, H0059: 1, H0100: 1, L0564: 1, H0561: 1, S0210: 1, L0369: 1, L3904: 1, L0800: 1, L0641: 1,							
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HCONL67	HCONL67R	1097	389 - 631	3272	Leu-2 to Leu-9.	L0764: 1, L5564: 1, L0804: 1, L0378: 1, L0806: 1, L0807: 1, L0526: 1, L0787: 1, L0788: 1, L0791: 1, L0793: 1, S0374: 1, H0691: 1, T0068: 1, H0690: 1, H0682: 1, H0684: 1, H0658: 1, H0672: 1, H0651: 1, H0518: 1, H0696: 1, S0146: 1, S0037: 1, S3014: 1, S0027: 1, S0028: 1, S0206: 1, S0032: 1, H0445: 1, L0589: 1, L0590: 1, L0485: 1, L0604: 1, H0668: 1, H0653: 1, S0242: 1, S0194: 1 and H0008: 1.		
						L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8,		

H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3, H0331: 3, H0575: 3, L0471: 3, H0620: 3, S0250: 3, H0032: 3, H0591: 3, L0598: 3, L0803: 3, L0653: 3, L0657: 3, H0670: 3, S0406: 3, H0555: 3, L0780: 3, L0605: 3, H0667: 3, H0717: 2, T0049: 2, S0212: 2, H0661: 2, S0376: 2, S0007: 2, H0208: 2, S0476: 2, H0645: 2, H0411: 2, H0437: 2, H0550: 2, H0586: 2,
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H0333: 2, H0599: 2, H0042: 2, H0545: 2, H0123: 2, H0105: 2, H0014: 2, H0051: 2, H0375: 2, L0142: 2, H0598: 2, H0135: 2, H0040: 2, S0372: 2, L0520: 2, L0640: 2, L0769: 2, L5566: 2, L0772: 2, L0646: 2, L0771: 2, L0363: 2, L0768: 2, L0375: 2, L0654: 2, L0776: 2, L0809: 2, L0438: 2, H0547: 2, H0519: 2, L0602: 2, L0743: 2, L0744: 2, L0439: 2, L0758: 2, L0759: 2, L0588: 2, L0599: 2, L0361: 2, H0716: 1, H0294: 1, S0430: 1, S0298: 1, S0132: 1, H0351: 1, H0369: 1, S0222: 1, H0370: 1, H0392: 1, H0409: 1, H0587: 1, H0574: 1, H0485: 1, T0040: 1, T0060: 1, H0244: 1, L0021: 1, H0003: 1, H0036: 1, H0274: 1,
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H0253: 1, H0505: 1, H0251: 1, H0544: 1, H0546: 1, H0046: 1, H0081: 1, H0019: 1, T0003: 1, H0057: 1, H0015: 1, H0373: 1, H0275: 1, H0594: 1, S0003: 1, H0039: 1, H0111: 1, H0674: 1, S0364: 1, S0036: 1, H0090: 1, H0063: 1, H0087: 1, H0268: 1, H0412: 1, H0059: 1, H0100: 1, L0564: 1, H0561: 1, S0210: 1, L0369: 1, L3904: 1, L0800: 1, L0641: 1, L0764: 1, L5564: 1, L0804: 1, L0378: 1, L0806: 1, L0807: 1, L0526: 1, L0787: 1, L0788: 1, L0791: 1, L0793: 1, S0374: 1, H0691: 1, T0068: 1, H0690: 1, H0682: 1, H0684: 1, H0658: 1, H0672: 1, H0651: 1, H0518: 1, H0696: 1, S0146: 1, S0037: 1, S3014: 1, S0027: 1,							
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							S0028: 1, S0206: 1, S0032: 1, H0445: 1, L0589: 1, L0590: 1, L0485: 1, L0604: 1, H0668: 1, H0653: 1, S0242: 1, S0194: 1 and H0008: 1.			
HCONN92	HCONN92R	1098	205 - 384	3273						
HCONO17	HCONO17R	1099	1 - 135	3274						
HCONO25	HCONO25R	1100	218 - 610	3275			L0803: 15, L0766: 7, L0748: 6, L0809: 5, L0749: 5, L0804: 4, L0776: 4, L0754: 4, L0752: 4, L0805: 3, L0755: 3, S0438: 2, L0800: 2, L0662: 2, L0740: 2, L0751: 2, L0747: 2, L0750: 2, L0757: 2, L0615: 1, H0556: 1, S0278: 1, T0039: 1, H0318: 1, H0597: 1, H0009: 1, H0510: 1, H0553: 1, H0063: 1, H0509: 1, H0647: 1, S0144: 1, L0763: 1, L0770: 1, L0764: 1, L0768: 1, L0794: 1, L0775: 1, L0653: 1, L0661: 1, L0518: 1, L0790: 1,			

HCONP44	HCONP44R	1101	3 - 413	3276			H0519: 1, H0659: 1, H0670: 1, S0328: 1, H0696: 1, L0439: 1, L0581: 1, S0242: 1 and S0276: 1.		
HCONQ67	HCONQ67R	1102	1 - 669	3277			Val-1 to Ile-10, Met-32 to Asn-42, Gly-7 to Gly-21, Pro-145 to Arg-152, Ala-178 to Lys-183.		
HCONQ71	HCONQ71R	1103	312 - 488	3278					
HCONR31	HCONR31R	1104	3 - 380	3279			Gly-18 to Gln-39, Leu-49 to His-60, Glu-67 to Asp-92.		
HCONU03	HCONU03R	1105	3 - 575	3280					
HCONW62	HCONW62R	1106	1 - 429	3281			Thr-76 to Arg-92, Pro-113 to Ala-118.		
HCONW74	HCONW74R	1107	85 - 234	3282			Pro-15 to Tyr-21.		
HCONW90	HCONW90R	1108	2 - 151	3283			Asn-1 to Pro-10.		
HCONW95	HCONW95R	1109	44 - 457	3284					
HCOOB60	HCOOB60R	1110	101 - 352	3285					
HCOOG32	HCOOG32R	1111	2 - 334	3286					
HCOOG37	HCOOG37R	1112	3 - 482	3287					
HCOOH93	HCOOH93R	1113	1 - 426	3288					
HCOOI71	HCOOI71R	1114	1 - 354	3289			Ala-15 to Gln-25, Gly-42 to Asp-51, Gln-82 to Lys-87, Lys-113 to Lys-118.		
HCOOI79	HCOOI79R	1115	209 - 625	3290					

HCOOM18	HCOOM18R	1116	2 - 694	3291	Lys-71 to Gln-76, Ala-95 to Asp-100, Asp-113 to Ser-134.			
HCOOM73	HCOOM73R	1117	2 - 661	3292	Leu-33 to Lys-39.	H0012: 5, H0620: 4, H0622: 4, L0803: 4, H0670: 4, L0751: 4, L0770: 3, S6024: 2, S0222: 2, L0791: 2, L0731: 2, H0549: 1, H0438: 1, T0023: 1, H0477: 1, H0647: 1, L0648: 1, L0774: 1, L0659: 1, L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0648: 1, H0651: 1, S0380: 1, L0748: 1, L0439: 1, L0756: 1, L0779: 1 and L0755: 1.		
HCOOQ46	HCOOQ46R	1118	2 - 166	3293				
HCOOS39	HCOOS39R	1119	2 - 229	3294				
HCOOT43	HCOOT43R	1120	2 - 439	3295		L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9, L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5,		

L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4, H0658: 4, L0747: 4, L0750: 4, L0757: 4, H0295: 3, T0049: 3, H0255: 3, L0622: 3, T0039: 3, H0253: 3, H0545: 3, L0163: 3, H0594: 3, H0188: 3, H0673: 3, H0100: 3, S0142: 3, L0372: 3, L0775: 3, L0776: 3, L0657: 3, L0382: 3, L0665: 3, H0672: 3, S0027: 3, L0742: 3, L0752: 3, S0260: 3, H0445: 3, L0596: 3, L0588: 3, L0599: 3, S0420: 2, H0637: 2, S0045: 2, S0132: 2, S0300: 2, S0278: 2, S0222: 2, H0431: 2, H0392: 2, H0599: 2, H0575: 2, H0052: 2, H0309: 2, H0085: 2, H0597: 2, H0544: 2, H0428: 2, H0124: 2, S0036: 2, H0163: 2, H0038: 2, H0413: 2,
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H0529: 2, L0369: 2, L0763: 2, L0770: 2, L0638: 2, L0764: 2, L0771: 2, L0803: 2, L0804: 2, L0375: 2, L0655: 2, L0384: 2, L0809: 2, L0532: 2, S0374: 2, S0126: 2, H0670: 2, H0651: 2, H0521: 2, S0028: 2, L0740: 2, L0485: 2, L0362: 2, L0601: 2, S0192: 2, S0424: 2, L0600: 2, H0536: 1, T0002: 1, H0686: 1, S0040: 1, S0342: 1, H0294: 1, S0114: 1, S0134: 1, H0650: 1, H0657: 1, L0785: 1, H0341: 1, S0180: 1, S0212: 1, H0484: 1, H0483: 1, H0254: 1, H0671: 1, H0662: 1, H0402: 1, H0638: 1, S0418: 1, S0356: 1, T0007: 1, S0358: 1, S0007: 1, H0208: 1, H0441: 1, H0438: 1, H0587: 1, S0005: 1, L0623: 1, L0477: 1,
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HCOOT68	HCOOT68R	1121	147 - 488	3296	Arg-13 to Val-20.	L0650: 1, L0774: 1, L0376: 1, L0806: 1, L0652: 1, L0653: 1, L0606: 1, L0629: 1, L0659: 1, L0636: 1, L0542: 1, L0526: 1, L0518: 1, L0782: 1, L0783: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0659: 1, H0660: 1, S0328: 1, S0330: 1, S0380: 1, H0522: 1, S0004: 1, H0555: 1, L0611: 1, S3014: 1, S0206: 1, L0755: 1, L0758: 1, H0444: 1, L0587: 1, L0589: 1, L0605: 1, L0591: 1, L0608: 1, L0361: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, H0543: 1, H0423: 1, S0460: 1, S0456: 1 and H0506: 1. L0748: 20, H0251: 11, L0771: 11, L0740: 11, L0731: 11, L0757: 11, L0752: 10, S0126: 8, H0144: 7, L0596: 6, H0013: 5, L0665: 5.
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L0747: 5, H0542: 5, H0423: 5, H0624: 4, T0002: 4, H0486: 4, H0031: 4, H0169: 4, H0616: 4, L0770: 4, L0776: 4, L0666: 4, S0152: 4, L0754: 4, H0657: 3, H0663: 3, S0418: 3, S0358: 3, S0360: 3, H0038: 3, L0764: 3, L0648: 3, L0775: 3, L0655: 3, L0749: 3, L0750: 3, L0755: 3, S0026: 3, H0422: 3, H0170: 2, H0171: 2, H0341: 2, H0402: 2, H0638: 2, S0045: 2, S0046: 2, H0156: 2, S0182: 2, H0318: 2, L0471: 2, S0003: 2, H0168: 2, H0674: 2, H0090: 2, H0063: 2, H0412: 2, H0413: 2, H0100: 2, S0440: 2, L0769: 2, L0372: 2, L0662: 2, L0659: 2, H0547: 2, H0659: 2, S0328: 2, S0380: 2, H0521: 2, L0756: 2, L0758: 2,
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	L0759: 2, H0445: 2, L0605: 2, L0604: 2, L0595: 2, L0362: 2, S0194: 2, H0543: 2, S0040: 1, S0134: 1, H0583: 1, H0656: 1, S0116: 1, H0484: 1, H0177: 1, S0420: 1, L0005: 1, S0354: 1, S0408: 1, L0717: 1, H0369: 1, H0550: 1, S0222: 1, H0574: 1, H0632: 1, T0060: 1, H0250: 1, H0108: 1, H0575: 1, H0037: 1, T0048: 1, H0309: 1, H0596: 1, T0115: 1, H0597: 1, H0327: 1, H0046: 1, S0051: 1, H0083: 1, H0061: 1, S6028: 1, H0288: 1, H0292: 1, H0039: 1, H0553: 1, H0644: 1, H0111: 1, H0032: 1, H0383: 1, H0316: 1, H0598: 1, H0087: 1, H0059: 1, T0042: 1, H0560: 1, S0438: 1, H0509: 1, H0132: 1, H0641: 1, H0633: 1,
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						S0210: 1, H0529: 1, L0520: 1, L0763: 1, L0637: 1, L0800: 1, L0765: 1, L0773: 1, L0521: 1, L0768: 1, L0364: 1, L0766: 1, L0806: 1, L0653: 1, L0657: 1, L0518: 1, L0783: 1, L0383: 1, L0663: 1, L0664: 1, H0593: 1, H0689: 1, H0682: 1, H0670: 1, H0666: 1, H0648: 1, H0672: 1, L0355: 1, H0522: 1, S0013: 1, H0696: 1, H0134: 1, H0214: 1, S0406: 1, L0609: 1, S3014: 1, S0206: 1, L0744: 1, L0751: 1, H0343: 1, L0591: 1, L0601: 1, S0242: 1, L0697: 1, S0424: 1 and S0446: 1.		
HCOOU56	HCOOU56R	1122	3 - 257	3297	Ala-20 to Asp-25, Asp-38 to Ser-59, Asn-103 to Glu-109, Pro-111 to Ser-119.			
HCOOW72	HCOOW72R	1123	58 - 534	3298				
HCOOX01	HCOOX01R A	1124	153 - 311	3299				

HCOOX07	HCOOX07R	1125	236 - 367	3300	His-15 to Gly-29.	L0751: 14, L0659: 11, H0695: 10, L0666: 10, L0757: 9, L0743: 8, L0779: 8, H0581: 6, L0769: 6, L0748: 6, L0758: 6, H0556: 5, H0402: 5, S0360: 5, H0014: 5, H0271: 5, L0761: 5, L0667: 5, L0774: 5, L0653: 5, S0406: 5, H0436: 5, S0358: 4, S0132: 4, L0763: 4, L0776: 4, L0809: 4, L0664: 4, S0126: 4, L0731: 4, S0280: 3, H0150: 3, H0687: 3, L0662: 3, L0775: 3, L0375: 3, H0670: 3, L0749: 3, S0434: 3, H0295: 2, H0650: 2, S0408: 2, H0580: 2, H0411: 2, H0586: 2, H0559: 2, H0545: 2, H0050: 2, S0051: 2, H0083: 2, H0416: 2, H0688: 2, H0617: 2, H0063: 2, H0551: 2, S0344: 2, L0643: 2, L0764: 2, L0766: 2, L0649: 2,
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HCOOX48	HCOOX48R	1126	203 - 349	3301	Leu-13 to Gly-21, Ser-27 to Ser-42.					
HCOOY43	HCOOY43R	1127	1 - 315	3302	Asn-67 to Arg-73, Thr-96 to Gly-102.					
HCOPA60	HCOPA60RA	1128	3 - 446	3303	Ala-1 to Leu-7, Gly-14 to Arg-19, Tyr-34 to Asp-41.	L0748: 4, L0747: 4, L0779: 4, H0620: 3, L0770: 3, L0774: 3, L0622: 2, S0280: 2,				

HCOPB03	HCOPB03R	1129	2 - 598	3304	Asp-28 to Gln-34, Ala-38 to Ile-44, Ala-64 to Arg-77, Gly-82 to Ala-88.	H0271: 2, H0290: 2, L0769: 2, L0800: 2, L0794: 2, L0766: 2, L0775: 2, H0547: 2, S0126: 2, S0380: 2, L0752: 2, L0758: 2, L0596: 2, H0295: 1, S0212: 1, H0125: 1, H0559: 1, T0060: 1, T0082: 1, H0150: 1, N0006: 1, H0024: 1, S0022: 1, H0688: 1, H0428: 1, T0023: 1, H0033: 1, H0424: 1, H0213: 1, H0412: 1, H0413: 1, H0633: 1, S0344: 1, L0646: 1, L0768: 1, L0804: 1, L0656: 1, L0783: 1, L0809: 1, L0788: 1, L0666: 1, L0663: 1, L0438: 1, H0670: 1, H0660: 1, H0522: 1, S0037: 1, L0439: 1, L0750: 1, L0759: 1, S0031: 1 and S0196: 1.		
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HCOPC45	HCOPC45R	1130	3 - 89	3305				
HCOPD67	HCOPD67R	1131	26 - 541	3306	Phe-1 to Gly-7.			
HCOPD27	HCOPD27R	1132	2 - 400	3307	Arg-37 to Gly-44, Asp-76 to Gly-87.	L0751: 16, L0601: 10, L0659: 4, H0670: 2, L0665: 3, S0376: 2, H0494: 2, L0758: 2, L0596: 2, H0587: 1, H0646: 1, L0372: 1, L0646: 1, L0662: 1, L0552: 1, L0376: 1, L0806: 1, L0664: 1, H0682: 1, H0435: 1, H0672: 1 and L0744: 1.		
HCOPH51	HCOPH51RA	1133	243 - 398	3308				
HCOP109	HCOP109RA	1134	2 - 328	3309				
HCOPM42	HCOPM42R	1135	1 - 90	3310				
HCOPQ34	HCOPQ34R	1136	140 - 361	3311	Thr-6 to Cys-16, Tyr-40 to Lys-47, Ser-61 to Gln-66.			
HCOPQ36	HCOPQ36R	1137	143 - 601	3312	Arg-1 to Ser-7, Ser-25 to Phe-32, Leu-39 to Ser-44, Arg-58 to Gly-63, Ser-140 to Thr-145.	L0665: 3, H0682: 2, H0435: 2, L0751: 2, H0663: 1, L0021: 1, H0647: 1, L0806: 1, L0664: 1, H0683: 1, H0670: 1 and H0660: 1.		
HCOPQ88	HCOPQ88R	1138	1 - 267	3313	Pro-7 to Phe-15, Gly-26 to Arg-31, Asp-35 to Glu-43.			
HCOPV41	HCOPV41R	1139	3 - 620	3314	Arg-4 to Lys-9.			

					Asp-61 to Asn-67, Thr-69 to Lys-75, Leu-105 to Ala-112, Gly-126 to His-134, Gly-172 to Glu-179, Pro-186 to Asn-199.				AR096: 11, AR061: 10, AR104: 5, AR060: 5, AR089: 5, AR055: 4 L0774: 3, S0358: 2, H0509: 2, L0809: 2, H0670: 2, L0745: 2, L0779: 2, L0752: 2, H0449: 1, T0048: 1, H0355: 1, H0428: 1, H0617: 1, S0438: 1, H0529: 1, L0770: 1, L0761: 1, L0773: 1, L0803: 1, L0804: 1, L0375: 1, L0659: 1, L0382: 1, L0791: 1, S0328: 1, H0134: 1, L0743: 1, L0748: 1, L0747: 1 and L0756: 1.					
HCOPI15	HCOPI15R	1140	1 - 582	3315										
HCOQA38	HCOQA38R	1141	41 - 271	3316	His-39 to Asn-45, Cys-68 to Cys-75.									
HCOQA80	HCOQA80R	1142	1 - 192	3317	His-37 to Asp-42.									
HCOQB12	HCOQB12R	1143	1 - 582	3318	Lys-6 to Asp-11, Glu-22 to Phe-27,									

HCOQB56	HCOQB56R	1144	1 - 66	3319	His-54 to Gly-63, Asp-73 to Lys-79.	H0670: 2 and H0589: 1.		
HCOQB58	HCOQB58R	1145	281 - 466	3320	Lys-1 to Gln-7.	L0794: 7, L0803: 5, L0809: 5, L0666: 5, L0751: 5, L0759: 3, H0674: 2, L0768: 2, L0774: 2, L0663: 2, L0779: 2, L0758: 2, S0360: 1, H0455: 1, H0618: 1, H0263: 1, H0169: 1, H0616: 1, H0059: 1, S0112: 1, L0451: 1, L0770: 1, L0639: 1, L0648: 1, L0804: 1, L0776: 1, L0783: 1, L0789: 1, L0790: 1, L0791: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1 and L0608: 1.		
HCOQC71	HCOQC71R	1146	3 - 248	3321	Lys-1 to Asp-21, Lys-61 to Leu-71.			
HCOQD29	HCOQD29R	1147	1 - 570	3322	Glu-66 to Arg-72, Pro-148 to Ser-154.			
HCOQD38	HCOQD38R	1148	106 - 639	3323	Met-3 to Ser-16, Cys-25 to Asp-35, Glu-42 to Lys-52, Ser-55 to Glu-63, Glu-74 to Thr-79.			

HCOQD49	HCOQD49R	1149	8 - 196	3324	Ile-81 to Ser-102, Ser-109 to Glu-118, Thr-138 to Glu-158. Asp-39 to Ser-46.	S0358: 15, S0003: 13, S0126: 11, L0754: 11, S0410: 10, H0599: 9, S0440: 9, H0529: 9, L0748: 9, H0341: 8, H0373: 8, H0591: 8, L0588: 8, L0362: 8, H0661: 7, S0007: 7, L0471: 7, L0731: 7, H0170: 6, T0042: 6, S0374: 6, H0624: 5, S0408: 5, H0013: 5, H0046: 5, H0031: 5, H0551: 5, H0144: 5, L0752: 5, H0657: 4, S0346: 4, S0214: 4, H0039: 4, H0644: 4, H0616: 4, H0413: 4, H0494: 4, H0670: 4, S0404: 4, S3014: 4, L0740: 4, L0747: 4, L0750: 4, L0753: 4, L0758: 4, L0581: 4, S0424: 4, S0040: 3, H0663: 3, H0638: 3, S0356: 3, S0360: 3, S0222: 3, H0497: 3,		
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H0575: 3, H0036: 3, S0010: 3, H0052: 3, S0438: 3, H0547: 3, S0328: 3, S0380: 3, S0206: 3, L0439: 3, L0757: 3, L0595: 3, H0423: 3, S0114: 2, S0116: 2, S0212: 2, H0484: 2, H0125: 2, S0418: 2, S0376: 2, S0444: 2, H0580: 2, H0393: 2, H0369: 2, H0370: 2, H0409: 2, H0331: 2, H0574: 2, H0486: 2, H0156: 2, H0042: 2, H0318: 2, H0581: 2, H0196: 2, H0012: 2, L0163: 2, H0083: 2, H0266: 2, H0328: 2, H0615: 2, L0194: 2, L0483: 2, H0673: 2, H0169: 2, S0364: 2, H0316: 2, H0598: 2, S0036: 2, H0090: 2, T0067: 2, S0150: 2, S0344: 2, S0422: 2, S0002: 2, L0762: 2, L0774: 2, L0666: 2, L0438: 2, H0659: 2, H0539: 2,							
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S0152: 2, H0521: 2, H0696: 2, S3012: 2, L0749: 2, L0756: 2, S0434: 2, L0593: 2, L0594: 2, L0366: 2, H0653: 2, H0543: 2, H0506: 2, H0171: 1, H0685: 1, H0716: 1, T0049: 1, S0134: 1, S0218: 1, H0583: 1, H0254: 1, H0255: 1, H0671: 1, H0664: 1, H0305: 1, L0005: 1, S0468: 1, H0208: 1, S0045: 1, S0046: 1, S6026: 1, H0351: 1, H0411: 1, H0261: 1, H0431: 1, H0455: 1, H0586: 1, H0632: 1, T0039: 1, L0586: 1, H0098: 1, H0120: 1, T0048: 1, S0182: 1, S0049: 1, H0230: 1, H0596: 1, T0115: 1, H0546: 1, H0545: 1, H0009: 1, H0178: 1, H0572: 1, H0123: 1, H0024: 1, H0275: 1, T0010: 1, H0239: 1, H0375: 1, H0288: 1,							
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H0286: 1, H0070: 1, H0622: 1, T0023: 1, S0368: 1, T0006: 1, H0553: 1, H0628: 1, H0032: 1, H0674: 1, H0124: 1, H0068: 1, H0038: 1, H0634: 1, H0412: 1, H0100: 1, H0560: 1, H0625: 1, H0561: 1, H0132: 1, H0130: 1, H0646: 1, S0142: 1, H0142: 1, H0695: 1, L0369: 1, L0371: 1, L0373: 1, L0764: 1, L0773: 1, L0648: 1, L0521: 1, L0649: 1, L0784: 1, L0776: 1, L0558: 1, L0382: 1, L0787: 1, L0792: 1, L0664: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0683: 1, H0684: 1, H0435: 1, H0660: 1, H0648: 1, S0330: 1, H0710: 1, H0522: 1, S0044: 1, S0146: 1, S0406: 1, H0555: 1, H0436: 1, H0447: 1, H0627: 1,
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							H0444: 1, H0595: 1, L0608: 1, S0011: 1, H0668: 1, S0026: 1, H0136: 1, H0542: 1 and H0422: 1.			
HCOQF77	HCOQF77R	1150	1 - 357	3325						
HCOQG37	HCOQG37R	1151	3 - 395	3326						
							Pro-26 to Asn-34, Pro-50 to Pro-56, Arg-64 to Val-69, Val-97 to Lys-103.			
HCOQG47	HCOQG47R	1152	208 - 522	3327						
HCOQH46	HCOQH46R	1153	2 - 583	3328						
HCOQI14	HCOQI14R	1154	11 - 187	3329			Arg-10 to Ser-16.			
							L0777: 9, L0766: 5, L0748: 3, L0439: 3, H0599: 2, L0774: 2, L0747: 2, L0749: 2, L0779: 2, L0731: 2, H0305: 1, L0534: 1, H0675: 1, S0046: 1, H0004: 1, H0083: 1, L0456: 1, T0042: 1, S0344: 1, S0002: 1, L0369: 1, L0770: 1, L0773: 1, L0803: 1, L0776: 1, L0809: 1, L0791: 1, H0658: 1, H0670: 1, S3012: 1, L0756: 1, L0780: 1 and L0759: 1.			
HCOQI67	HCOQI67R	1155	1 - 126	3330						



HCOQJ06	HCOQJ06R	1156	8 - 457	3331			L0752: 4, H0156: 2, L0803: 2, L0776: 2,
HCOQJ07	HCOQJ07R	1157	3 - 707	3332			H0648: 2, L0439: 2,
HCOQJ36	HCOQJ36R	1158	149 - 328	3333			H0431: 1, H0575: 1, H0014: 1, T0023: 1, H0598: 1, H0591: 1, H0059: 1, L0772: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0805: 1, L0629: 1, L0789: 1, L0665: 1, L0438: 1, H0658: 1, H0670: 1 and L0779: 1.
HCOQJ79	HCOQJ79R	1159	1 - 471	3334			
HCOQK86	HCOQK86R	1160	1 - 519	3335			
HCOQL87	HCOQL87R	1161	3 - 398	3336			
HCOQM87	HCOQM87R	1162	3 - 143	3337	Arg-1 to Val-23.		
HCOQQ79	HCOQQ79R	1163	2 - 613	3338	Phe-94 to Glu-102, Gln-133 to Thr-140.		
HCOQP32	HCOQP32R	1164	3 - 149	3339			
HCOQS11	HCOQS11R	1165	75 - 443	3340			
HCOQU15	HCOQU15R	1166	2 - 430	3341	Asn-29 to Gly-38, Glu-50 to Gln-58.		L0665: 4, L0743: 4, H0486: 3, H0123: 3, H0024: 3, L0528: 3, L0748: 3, H0170: 2.

HCOQU92	HCOQU92R	1167	46 - 315	3342	Ile-3 to Arg-8, Pro-17 to Ser-22,	H0050: 2, L0769: 2, H0670: 2, L0747: 2, L0750: 2, H0171: 1, H0556: 1, H0583: 1, H0657: 1, S0212: 1, H0208: 1, H0619: 1, S0278: 1, H0550: 1, S0222: 1, H0438: 1, H0613: 1, H0331: 1, H0013: 1, H0635: 1, H0002: 1, S0474: 1, H0581: 1, H0009: 1, L0157: 1, H0012: 1, S0025: 1, H0239: 1, H0375: 1, H0266: 1, H0598: 1, H0135: 1, H0163: 1, H0087: 1, H0551: 1, H0494: 1, S0210: 1, L0640: 1, L0763: 1, L0646: 1, L0387: 1, L0766: 1, L0805: 1, L0776: 1, L0655: 1, L0657: 1, H0144: 1, H0520: 1, H0547: 1, H0519: 1, H0689: 1, H0658: 1, H0576: 1, L0779: 1 and L0759: 1.		
HCOQU92	HCOQU92R	1167	46 - 315	3342	Ile-3 to Arg-8, Pro-17 to Ser-22,	L0805: 7, L0776: 4, L0748: 4, H0545: 3,		

Ser-28 to Ser-34, Thr-45 to Thr-56, Ser-58 to Thr-63, Tyr-74 to Thr-79.	S0438: 3, H0641: 3, L0588: 3, L0592: 3, T0049: 2, H0549: 2, H0431: 2, H0486: 2, L0471: 2, H0169: 2, S0372: 2, L0520: 2, L0553: 2, L0768: 2, L0649: 2, L0655: 2, L0527: 2, L0783: 2, L0532: 2, H0144: 2, H0682: 2, H0670: 2, S0378: 2, S0406: 2, L0750: 2, S0026: 2, H0542: 2, H0170: 1, H0716: 1, S0212: 1, H0638: 1, H0125: 1, S0444: 1, H0580: 1, H0393: 1, H0411: 1, H0587: 1, L0586: 1, T0114: 1, H0390: 1, T0048: 1, H0318: 1, H0596: 1, H0620: 1, H0375: 1, T0006: 1, H0606: 1, H0429: 1, S0294: 1, H0386: 1, L0770: 1, L0769: 1, L3904: 1, L0374: 1, L0773: 1, L0662: 1, L0766: 1, L0803: 1, L0774: 1, L0526: 1.
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HCOQV27	HCOQV27R	1168	3 - 239	3343	Glu-1 to Lys-17, Val-25 to Asn-30, Phe-36 to Pro-42.	L0809: 1, L0793: 1, L0664: 1, S0053: 1, H0689: 1, H0684: 1, H0659: 1, H0658: 1, H0648: 1, S0330: 1, H0521: 1, H0522: 1, S0404: 1, L0749: 1, L0780: 1, L0731: 1 and H0543: 1. H0250: 35, L0770: 9, H0635: 6, L0483: 6, L0766: 6, H0521: 6, L0745: 6, S0003: 5, H0623: 5, L0776: 5, H0445: 5, S0408: 4, H0411: 4, H0634: 4, H0641: 4, L0598: 4, H0650: 3, H0656: 3, S0360: 3, H0574: 3, H0486: 3, H0373: 3, H0687: 3, H0591: 3, H0040: 3, L0662: 3, L0775: 3, L0665: 3, S0216: 3, L0748: 3, L0777: 3, S0134: 2, H0663: 2, S0007: 2, H0550: 2, H0013: 2, H0581: 2, H0510: 2, S0214: 2, H0615: 2, H0674: 2, S0440: 2,		
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L0771: 2, L0653: 2, H0658: 2, H0710: 2, H0518: 2, S0206: 2, L0744: 2, L0754: 2, L0750: 2, L0779: 2, L0731: 2, S0434: 2, L0605: 2, L0485: 2, L0362: 2, L0366: 2, H0543: 2, H0423: 2, H0170: 1, S0114: 1, T0049: 1, S0218: 1, L0002: 1, H0346: 1, H0661: 1, H0638: 1, S0418: 1, S0356: 1, S0354: 1, S0358: 1, S0376: 1, H0580: 1, H0619: 1, H0645: 1, L0717: 1, H0431: 1, H0609: 1, H0587: 1, H0632: 1, H0427: 1, S0280: 1, L0021: 1, H0599: 1, H0004: 1, S0049: 1, H0309: 1, H0596: 1, H0024: 1, S0362: 1, H0179: 1, H0271: 1, H0416: 1, S0336: 1, S0316: 1, H0328: 1, H0622: 1, H0553: 1, H0032: 1, H0124: 1, H0708: 1,							
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HCOQX38	HCOQX38R	1169	23 - 439	3344	Trp-2 to Gly-7.	S0366: 1, H0087: 1, T0067: 1, H0100: 1, S0294: 1, H0633: 1, H0649: 1, S0422: 1, UNKWN: 1, L0667: 1, L0641: 1, L0764: 1, L0794: 1, L0649: 1, L0774: 1, L0784: 1, L0805: 1, L0657: 1, L0659: 1, L0791: 1, L0792: 1, L0664: 1, S0052: 1, S0428: 1, H0699: 1, H0703: 1, H0693: 1, L0438: 1, H0547: 1, H0593: 1, H0659: 1, H0670: 1, H0522: 1, S0013: 1, H0555: 1, H0436: 1, H0576: 1, H0478: 1, S3014: 1, L0740: 1, L0746: 1, L0758: 1, L0588: 1, L0595: 1, L0361: 1, S0026: 1, S0242: 1, S0194: 1 and H0352: 1.
HCOQY33	HCOQY33R	1170	1 - 321	3345		S0282: 1, L0021: 1,
HCOQY43	HCOQY43R	1171	271 - 510	3346		S0438: 1, L0775: 1, L0666: 1, L0663: 1,

HCOQZ02	HCOQZ02R	1172	387 - 473	3347	Lys-1 to Lys-13.	H0659: 1, H0670: 1 and L0758: 1.		
HCOQZ86	HCOQZ86R	1173	1 - 507	3348				
HCORA95	HCORA95R	1174	2 - 136	3349	Pro-1 to Phe-15..			
HCORB20	HCORB20R	1175	14 - 292	3350	Val-1 to Gly-9.			
HCORB43	HCORB43R	1176	1 - 303	3351				
HCORB66	HCORB66R	1177	3 - 611	3352	Asn-1 to Gly-8.			
HCORI18	HCORI18R	1178	105 - 317	3353	Asn-7 to Pro-33, Gly-40 to Gly-46, Tyr-49 to Tyr-71.	L0770: 3, H0685: 1, H0581: 1, H0553: 1, S0150: 1 and H0670: 1.		
HCORI25	HCORI25R	1179	3 - 419	3354	Leu-35 to Tyr-40.	L0754: 14, H0052: 13, L0748: 13, H0556: 12, L0591: 12, L0755: 11, L0752: 10, L0731: 9, L0601: 9, L0439: 8, L0777: 8, L0596: 8, H0046: 7, H0521: 7, L0758: 7, H0599: 6, H0622: 6, S0002: 6, L0646: 6, L0593: 6, H0265: 5, S0474: 5, L0776: 5, L0666: 5, L0741: 5, L0747: 5, S0026: 5, H0543: 5, H0619: 4, S0222: 4, H0013: 4, H0590: 4, H0544: 4, H0620: 4, H0124: 4, H0038: 4,		

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H0050: 2, H0012: 2, S0050: 2, H0014: 2, S6028: 2, H0188: 2, H0604: 2, H0553: 2, H0617: 2, S0364: 2, S0366: 2, H0063: 2, H0087: 2, H0059: 2, S0038: 2, T0042: 2, H0560: 2, H0561: 2, H0509: 2, H0641: 2, H0647: 2, L0764: 2, L0771: 2, L0775: 2, L0655: 2, L0517: 2, L0783: 2, L0664: 2, L0565: 2, H0519: 2, H0658: 2, H0631: 2, S0390: 2, S3014: 2, L0745: 2, L0757: 2, S0436: 2, L0599: 2, L0595: 2, L0362: 2, S0011: 2, H0653: 2, H0665: 2, H0667: 2, H0542: 2, H0423: 2, H0422: 2, T0002: 1, H0222: 1, H0686: 1, H0717: 1, H0255: 1, H0661: 1, H0663: 1, H0662: 1, H0458: 1, S0420: 1, S0442: 1, S0376: 1, H0208: 1,
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S0045: 1, H0645: 1, S0300: 1, H0406: 1, S0220: 1, H0431: 1, H0455: 1, H0404: 1, H0600: 1, H0586: 1, H0642: 1, H0492: 1, T0109: 1, H0069: 1, S0280: 1, H0156: 1, H0004: 1, H0618: 1, H0253: 1, S0049: 1, H0194: 1, H0251: 1, T0103: 1, T0115: 1, H0327: 1, H0457: 1, L0041: 1, H0569: 1, L0471: 1, H0154: 1, H0015: 1, S0362: 1, H0239: 1, H0355: 1, H0510: 1, H0375: 1, H0594: 1, S0022: 1, H0428: 1, H0644: 1, H0628: 1, H0032: 1, L0456: 1, S0036: 1, H0040: 1, H0616: 1, H0551: 1, H0268: 1, H0056: 1, H0623: 1, H0100: 1, H0494: 1, S0440: 1, H0131: 1, H0130: 1, H0633: 1, S0422: 1, S0426: 1, L0369: 1, L3905: 1,						
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HCQCR82	HCQCR82R	1180	48 - 206	3355	Glu-9 to Gly-17.	L0667: 1, L0363: 1, L0794: 1, L0803: 1, L0375: 1, L0651: 1, L0806: 1, L0805: 1, L0654: 1, L0379: 1, L0526: 1, L0519: 1, L0647: 1, L0791: 1, S0428: 1, H0144: 1, S0374: 1, H0520: 1, S0126: 1, H0711: 1, H0660: 1, H0672: 1, S0328: 1, H0539: 1, S0406: 1, H0555: 1, H0436: 1, H0627: 1, S0432: 1, S0037: 1, L0743: 1, L0744: 1, L0751: 1, S0031: 1, S0394: 1, L0592: 1, L0485: 1, L0608: 1, L0366: 1, H0136: 1, H0506: 1 and H0352: 1.		
HCRME42	HCRME42R	1181	1 - 537	3356	Lys-14 to Gly-26, Glu-33 to Arg-44, Pro-64 to Pro-69, Pro-79 to Asn-88, Thr-109 to Pro-123.			
HDABR53	HDABR53R	1182	2 - 463	3357				
HDLBE03	HDLBE03R	1183	158 - 325	3358	Ala-17 to Asn-23.			
HDPF126	HDPF126R	1184	37 - 303	3359	Ser-1 to Thr-8.			

HDTAQ74	HDTAQ74R	1185	133 - 414	3360	Glu-17 to Ala-32, Arg-39 to Trp-47.	L0759: 10, L0774: 3, H0648: 3, H0686: 2, S0360: 2, L0622: 2, H0486: 2, L0521: 2, L0775: 2, H0659: 2, S0328: 2, L0779: 2, L0755: 2, H0341: 1, S0354: 1, S0358: 1, H0351: 1, S0222: 1, L0021: 1, H0025: 1, L0105: 1, T0115: 1, H0545: 1, H0571: 1, H0050: 1, L0471: 1, S6028: 1, S0003: 1, H0031: 1, H0316: 1, H0038: 1, H0087: 1, H0494: 1, H0509: 1, S0142: 1, L0520: 1, L0769: 1, L0638: 1, L0772: 1, L0794: 1, L0803: 1, L0804: 1, L0382: 1, L0367: 1, L0665: 1, S0374: 1, H0690: 1, H0684: 1, S0044: 1, S3012: 1, S0027: 1, L0744: 1, L0777: 1, L0758: 1, L0604: 1, S0026: 1 and		
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HDTBP08	HDTBP08R	1186	231 - 431	3361	Leu-21 to Ala-27, Pro-48 to Gly-55.	\$0276: 1.		
HDTDA21	HDTDA21R	1187	207 - 431	3362	Ala-14 to Leu-20.			
HDTDB88	HDTDB88R	1188	102 - 215	3363	Tyr-25 to Phe-32.			
HDTJR38	HDTJR38R	1189	179 - 364	3364		L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8, H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3,		

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	L0602: 2, L0743: 2, L0744: 2, L0439: 2, L0758: 2, L0759: 2, L0588: 2, L0599: 2, L0361: 2, H0716: 1, H0294: 1, S0430: 1, S0298: 1, S0132: 1, H0351: 1, H0369: 1, S0222: 1, H0370: 1, H0392: 1, H0409: 1, H0587: 1, H0574: 1, H0485: 1, T0040: 1, T0060: 1, H0244: 1, L0021: 1, H0003: 1, H0036: 1, H0274: 1, H0253: 1, H0505: 1, H0251: 1, H0544: 1, H0546: 1, H0046: 1, H0081: 1, H0019: 1, T0003: 1, H0057: 1, H0015: 1, H0373: 1, H0275: 1, H0594: 1, S0003: 1, H0039: 1, H0111: 1, H0674: 1, S0364: 1, S0036: 1, H0090: 1, H0063: 1, H0087: 1, H0268: 1, H0412: 1, H0059: 1, H0100: 1, L0564: 1, H0561: 1, S0210: 1,
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HE8QX44	HE8QX44R	1190	1 - 288	3365	Thr-8 to Thr-22, Phe-42 to Lys-51, Arg-60 to Lys-69.	L0369: 1, L3904: 1, L0800: 1, L0641: 1, L0764: 1, L5564: 1, L0804: 1, L0378: 1, L0806: 1, L0807: 1, L0526: 1, L0787: 1, L0788: 1, L0791: 1, L0793: 1, S0374: 1, H0691: 1, T0068: 1, H0690: 1, H0682: 1, H0684: 1, H0658: 1, H0672: 1, H0651: 1, H0518: 1, H0696: 1, S0146: 1, S0037: 1, S3014: 1, S0027: 1, S0028: 1, S0206: 1, S0032: 1, H0445: 1, L0589: 1, L0590: 1, L0485: 1, L0604: 1, H0668: 1, H0653: 1, S0242: 1, S0194: 1 and H0008: 1.		
HE9QU94	HE9QU94R	1191	3 - 170	3366	Arg-1 to Cys-23, Trp-25 to Ser-35.			
HEAHF02	HEAHF02R	1192	32 - 376	3367	Ser-10 to Thr-34, Ser-37 to Asn-89.			
HEEAY40	HEEAY40R	1193	3 - 128	3368	Thr-15 to Ser-26.			



HEGAF68	HEGAF68R	1194	45 - 221	3369	Glu-9 to Gly-17.	H0457: 14, L0751: 13,		
HEOSP11	HEOSP11R	1195	96 - 395	3370	Pro-13 to Leu-25.	H0617: 8, L0761: 7, L0666: 6, L0664: 6, L0665: 6, H0593: 6, L0662: 5, L0748: 5, H0052: 4, H0014: 4, H0529: 4, L0655: 4, L0809: 4, L0663: 4, H0436: 4, L0747: 4, L0758: 4, H0592: 3, H0587: 3, H0581: 3, L0763: 3, L0769: 3, L0659: 3, H0539: 3, L0779: 3, S0434: 3, H0506: 3, H0295: 2, H0650: 2, H0657: 2, L0005: 2, S0356: 2, S0442: 2, S0354: 2, S0360: 2, H0580: 2, H0733: 2, H0553: 2, H0135: 2, H0560: 2, H0625: 2, H0647: 2, L0374: 2, L0657: 2, L0647: 2, H0682: 2, H0672: 2, H0521: 2, S0028: 2, L0743: 2, L0749: 2, L0752: 2, L0755: 2, L0759: 2, L0593: 2, S0446: 2,		

L0600: 2, H0556: 1, H0686: 1, H0717: 1, H0656: 1, S0001: 1, H0661: 1, H0663: 1, H0402: 1, S0418: 1, S0420: 1, S0358: 1, S0376: 1, S0408: 1, S0045: 1, S0132: 1, H0619: 1, H0549: 1, S0222: 1, H0441: 1, H0392: 1, H0600: 1, H0586: 1, H0559: 1, H0486: 1, H0013: 1, S0280: 1, H0599: 1, H0575: 1, H0618: 1, H0318: 1, S0474: 1, S0049: 1, H0251: 1, T0115: 1, H0545: 1, H0009: 1, H0567: 1, H0571: 1, H0050: 1, L0471: 1, S0051: 1, S6028: 1, H0687: 1, H0428: 1, H0622: 1, T0006: 1, H0213: 1, L0142: 1, H0181: 1, H0032: 1, H0056: 1, H0100: 1, H0494: 1, H0561: 1, H0652: 1, S0142: 1, S0344: 1, L0625: 1, L0770: 1,							
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HFABK01	HFABK01R	I196	26 - 112	3371	Asn-4 to Tyr-9.	L0639: 1, L0646: 1, L0800: 1, L0641: 1, L0642: 1, L0648: 1, L0794: 1, L0766: 1, L0649: 1, L0650: 1, L0774: 1, L0651: 1, L0653: 1, L0776: 1, L0629: 1, L0656: 1, L0636: 1, L5623: 1, L0792: 1, S0428: 1, H0726: 1, S0310: 1, H0690: 1, H0684: 1, H0658: 1, H0670: 1, S0330: 1, S0380: 1, S0404: 1, S0406: 1, H0555: 1, L0611: 1, H0540: 1, L0741: 1, L0744: 1, L0777: 1, S0436: 1, L0601: 1, L0366: 1, S0106: 1, S0192: 1, H0423: 1 and S0424: 1.		
HFADS75	HFADS75R	I197	102 - 365	3372	Ala-16 to Arg-26, Pro-68 to Gly-78.			
HFIBG63	HFIBG63R	I198	2 - 409	3373				
HFIBU15	HFIBU15R	I199	32 - 151	3374				
HFIXK57	HFIXK57R	I200	2 - 211	3375		H0594: 18, L0777: 10, L0766: 6, H0595: 6, H0170: 5, H0373: 5,		

L0598: 5, L0665: 5, S0412: 5, H0411: 4, L0662: 4, L0756: 4, L0731: 4, S0260: 4, H0624: 3, H0171: 3, S0282: 3, S0388: 3, L0776: 3, L0752: 3, L0758: 3, S0194: 3, L0717: 2, S0280: 2, H0428: 2, H0063: 2, S0344: 2, S0422: 2, L0650: 2, L0659: 2, L0666: 2, L0663: 2, L0439: 2, H0685: 1, S0218: 1, H0650: 1, H0177: 1, H0402: 1, S0358: 1, S0360: 1, S0046: 1, S0278: 1, H0550: 1, S0222: 1, H0431: 1, H0600: 1, H0592: 1, H0587: 1, H0486: 1, L0021: 1, H0599: 1, H0037: 1, H0263: 1, H0545: 1, H0050: 1, H0057: 1, L0163: 1, T0023: 1, H0598: 1, S0036: 1, H0551: 1, H0100: 1, H0359: 1, L0065: 1, H0649: 1, L0769: 1,						
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HFIZQ64	HFIZQ64R	1201	18 - 137	3376			Glu-27 to Leu-36, Pro-3 to Tyr-22.			
HFKKK36	HFKKK36R	1202	3 - 86	3377			Lys-17 to Thr-23.			
HFPEC93	HFPEC93R	1203	75 - 233	3378			Pro-75 to Cys-89.			
HFPIX37	HFPIX37R	1204	1 - 270	3379				AR089: 4, AR096: 3, AR033: 3, AR060: 3, AR061: 1, AR104: 1, AR055: 1, AR053: 0, AR039: 0, AR052: 0 H0583: 1, H0662: 1, S0222: 1, S0049: 1, H0272: 1, H0670: 1, H0521: 1, H0555: 1 and S0436: 1.		
HFSDK36	HFSDK36R	1205	18 - 314	3380			Cys-5 to Pro-21,			

							His-66 to Leu-77, Gln-80 to Ala-88, Tyr-92 to Ser-98.			
HFVIB28	HFVIB28R	1206	11 - 250	3381						
HF-XGR60	HF-XGR60R	1207	353 - 57	3382				S0001: 1		
HHHAUD071	HHHAUD071R	1208	304 - 426	3383			Val-24 to Leu-31.			
HHBFO21	HHBFO21R	1209	54 - 230	3384						
HHFVG50	HHFVG50R	1210	1 - 474	3385						
HHFGQ65	HHFGQ65RA	1211	53 - 277	3386			Arg-2 to Ser-7.			
HHFOE48	HHFOE48RP 00B	1212	181 - 426	3387				H0666: 13, S0358: 10, H0620: 10, L0750: 8, L0747: 7, L0731: 7, H0135: 5, L0659: 5, L0740: 5, L0757: 5, S0360: 4, H0123: 4, S0022: 4, L0666: 4, L0665: 4, S0028: 4, L0748: 4, L0777: 4, L0588: 4, H0265: 3, S0420: 3, H0208: 3, H0545: 3, H0046: 3, H0024: 3, H0284: 3, H0100: 3, L0650: 3, L0375: 3, L0382: 3, H0651: 3, L0755: 3, H0352: 3, S0278: 2, H0592: 2, H0333: 2, H0253: 2, H0544: 2, H0081: 2, H0012: 2, H0256: 2, H0286: 2.		

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HHSFG15	HHSFG15R	1213	3 - 62	3388							
HHSGP15	HHSGP15R	1214	77 - 142	3389							
HHSQG17	HHSQG17R	1215	112 - 270	3390							
HKBAD05	HKBAD05R	1216	49 - 315	3391	Pro-13 to Leu-18, Leu-37 to Arg-42, Lys-65 to Gly-77..						
HKZAD21	HKZAD21R	1217	244 - 405	3392							
HKZAE07	HKZAE07R	1218	1 - 138	3393	Val-40 to Tyr-46.					L0752: 11, L0662: 9,	



L0596: 9, L0659: 8, L0663: 7, L0766: 5, L0750: 5, L0521: 4, L0740: 4, L0757: 4, L0771: 3, L0775: 3, L0809: 3, L0666: 3, L0664: 3, H0648: 3, L0755: 3, L0758: 3, L0591: 3, L0785: 2, L0717: 2, H0036: 2, H0052: 2, H0529: 2, L0769: 2, L0637: 2, L0646: 2, L0765: 2, L0651: 2, L0653: 2, L0776: 2, L0655: 2, L0663: 2, H0682: 2, L0748: 2, L0439: 2, L0731: 2, L0759: 2, L0593: 2, L0595: 2, L0601: 2, H0686: 1, S0134: 1, L0778: 1, H0484: 1, H0661: 1, H0662: 1, H0393: 1, H0643: 1, H0002: 1, H0599: 1, H0318: 1, S0049: 1, H0251: 1, L0040: 1, H0545: 1, L0041: 1, N0006: 1, N0007: 1, S0388: 1, L0483: 1, H0606: 1,							
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HKZAG45	HKZAG45RA	1219	79 - 327	3394	Gly-1 to Val-7, Lys-15 to Leu-25, Pro-52 to Cys-57.	H0038: 1, H0040: 1, H0551: 1, H0413: 1, H0059: 1, H0560: 1, H0538: 1, S0002: 1, L0763: 1, L0772: 1, L0364: 1, L0649: 1, L0661: 1, L0657: 1, L0542: 1, L0526: 1, L0783: 1, L0382: 1, L0519: 1, L0528: 1, L0788: 1, L0565: 1, L0438: 1, H0547: 1, H0689: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, S0328: 1, L0602: 1, S0004: 1, S0044: 1, S0404: 1, H0555: 1, H0436: 1, S0028: 1, L0742: 1, L0751: 1, L0747: 1, L0756: 1, L0592: 1, L0581: 1, L0603: 1, H0543: 1, H0422: 1 and H0352: 1.		
HKZAI14	HKZAI14R	1220	3 - 368	3395	Lys-47 to Glu-52, Ala-71 to Asp-76, Asp-89 to Ser-110.			

HKZA168	HKZA168RA	1221	2 - 79	3396	Ser-9 to Ala-15.	S0474: 22, S0360: 13, H0556: 11, S0358: 11, L0747: 11, H0087: 10, S0126: 10, H0124: 9, S0410: 8, S0278: 8, H0024: 8, L0588: 8, S0206: 7, S0046: 6, L0731: 6, H0543: 6, H0265: 5, S0212: 5, S0045: 5, H0620: 5, H0594: 5, H0090: 5, H0063: 5, H0551: 5, T0042: 5, L0530: 5, H0144: 5, H0696: 5, S3014: 5, L0758: 5, S0192: 5, S0116: 4, H0549: 4, H0013: 4, H0530: 4, H0544: 4, H0081: 4, L0471: 4, H0012: 4, H0644: 4, H0163: 4, H0412: 4, H0100: 4, L0769: 4, L0771: 4, S0027: 4, L0740: 4, L0757: 4, L0605: 4, H0423: 4, H0624: 3, H0713: 3, S0418: 3, S0444: 3, S0408: 3, H0251: 3, H0545: 3, S0051: 3, H0083: 3, H0290: 3,
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H0623: 1, S0438: 1, H0132: 1, S0150: 1, H0633: 1, S0144: 1, S0210: 1, S0002: 1, S0426: 1, H0695: 1, L0763: 1, L0772: 1, L0643: 1, L0764: 1, L0766: 1, L0650: 1, L0774: 1, L0775: 1, L0654: 1, L0657: 1, L0540: 1, L0526: 1, L0518: 1, L0782: 1, L0384: 1, L0519: 1, L0544: 1, L0793: 1, L0666: 1, H0702: 1, H0701: 1, H0547: 1, H0689: 1, H0682: 1, H0660: 1, H0672: 1, H0651: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, H0521: 1, H0522: 1, S0004: 1, H0134: 1, H0436: 1, S0392: 1, S0390: 1, S0037: 1, S0032: 1, L0743: 1, L0439: 1, L0754: 1, L0750: 1, L0779: 1, L0759: 1, S0260: 1, H0595: 1, H0707: 1, L0604: 1,				
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HKZAQ39	HKZAQ39R	1222	1 - 480	3397	Ser-1 to Lys-6, Asp-48 to Gly-55, Pro-68 to Phe-76, Pro-83 to Gly-89, Asn-100 to Asp-108, Glu-134 to Lys-141, Lys-144 to Asp-160, Met-41 to Glu-47.	H0668: 1, H0653: 1, H0542: 1, H0422: 1, S0042: 1, S0456: 1 and S0446: 1.		
HKZAR58	HKZAR58R	1223	3 - 266	3398	Gln-54 to Leu-59, Glu-70 to Lys-76, Lys-147 to Ser-154.			
HKZAS59	HKZAS59R	1224	1 - 462	3399	Asp-1 to His-35, Pro-67 to His-75.			
HKZAS64	HKZAS64R	1225	1 - 276	3400	Ser-11 to Gly-18.	L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9, L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5, L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4.		
HKZAS84	HKZAS84R	1226	2 - 103	3401				

H0658: 4, L0747: 4, L0750: 4, L0757: 4, H0295: 3, T0049: 3, H0255: 3, L0622: 3, T0039: 3, H0253: 3, H0545: 3, L0163: 3, H0594: 3, H0188: 3, H0673: 3, H0100: 3, S0142: 3, L0372: 3, L0775: 3, L0776: 3, L0657: 3, L0382: 3, L0665: 3, H0672: 3, S0027: 3, L0742: 3, L0752: 3, S0260: 3, H0445: 3, L0596: 3, L0588: 3, L0599: 3, S0420: 2, H0637: 2, S0045: 2, S0132: 2, S0300: 2, S0278: 2, S0222: 2, H0431: 2, H0392: 2, H0599: 2, H0575: 2, H0052: 2, H0309: 2, H0085: 2, H0597: 2, H0544: 2, H0428: 2, H0124: 2, S0036: 2, H0163: 2, H0038: 2, H0413: 2, H0529: 2, L0369: 2, L0763: 2, L0770: 2, L0638: 2, L0764: 2,
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	S0010: 1, H0318: 1, S0049: 1, H0251: 1, H0596: 1, T0110: 1, H0327: 1, H0009: 1, H0123: 1, L0471: 1, H0006: 1, H0014: 1, H0051: 1, S0388: 1, H0510: 1, S0334: 1, H0687: 1, T0023: 1, T0006: 1, H0424: 1, H0182: 1, H0606: 1, H0383: 1, H0165: 1, H0166: 1, S0366: 1, H0135: 1, H0090: 1, T0067: 1, H0488: 1, H0412: 1, T0069: 1, S0112: 1, L0564: 1, H0494: 1, S0015: 1, H0561: 1, L0762: 1, L0640: 1, L0637: 1, L0761: 1, L0667: 1, L0772: 1, L0373: 1, L0646: 1, L0643: 1, L0374: 1, L0765: 1, L0773: 1, L0648: 1, L0521: 1, L0768: 1, L0364: 1, L0533: 1, L0650: 1, L0774: 1, L0376: 1, L0806: 1, L0652: 1, L0653: 1,
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HKZAV69	HKZAV69R	1227	2 - 412	3402	Val-6 to Lys-13, Tyr-23 to Asn-33, Lys-46 to Lys-51, Leu-75 to Asn-85, Asp-101 to Glu-106.		L0606: 1, L0629: 1, L0659: 1, L0636: 1, L0542: 1, L0526: 1, L0518: 1, L0782: 1, L0783: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0659: 1, H0660: 1, S0328: 1, S0330: 1, S0380: 1, H0522: 1, S0004: 1, H0555: 1, L0611: 1, S014: 1, S0206: 1, L0755: 1, L0758: 1, H0444: 1, L0587: 1, L0589: 1, L0605: 1, L0591: 1, L0608: 1, L0361: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, H0543: 1, H0423: 1, S0460: 1, S0456: 1 and H0506: 1.		
HKZAV72	HKZAV72R	1228	2 - 163	3403	Cys-1 to Val-33, Ala-47 to Glu-54.				
HKZAX48	HKZAX48R	1229	137 - 361	3404			L0771: 3, L0021: 1, S0036: 1, H0689: 1 and S0456: 1 and H0506: 1.		

HKZBB22	HKZBB22R	1230	2 - 520	3405	Arg-5 to Leu-11, Arg-32 to Lys-39, Thr-117 to Lys-122.	H0659: 1.		
HKZBS89	HKZBS89R	1231	1 - 381	3406	Gln-41 to His-48, Leu-55 to Gly-61, Pro-71 to Gly-79, Ala-104 to His-111.			
HLDDQ80	HLDDQ80R	1232	2 - 112	3407				
HLDXE19	HLDXE19R	1233	2 - 190	3408	Ala-2 to Lys-12.			
HLICD55	HLICD55R	1234	2 - 151	3409				
HLJBI32	HLJBI32R	1235	430 - 648	3410				
HLJBI37	HLJBI37R	1236	144 - 398	3411	Pro-77 to Lys-85.			
HLTHA47	HLTHA47R	1237	118 - 411	3412	Pro-82 to Lys-92.			
HLTJA50	HLTJA50R	1238	331 - 585	3413				
HLWAC95	HLWAC95R	1239	2 - 337	3414	Gln-20 to Ser-30.			
HLWDZ38	HLWDZ38R	1240	57 - 275	3415	Phe-45 to Ser-51.			
HLYDI57	HLYDI57R	1241	2 - 238	3416				
HMCFO19	HMCFO19R	1242	131 - 199	3417				
HMCIZ44	HMCIZ44R	1243	67 - 225	3418	Lys-17 to Thr-23.			
HMCJE25	HMCJE25R	1244	3 - 161	3419	Met-40 to Thr-52.			
HMSPB25	HMSPB25R	1245	324 - 145	3420				
HMVB04	HMVB04R	1246	136 - 276	3421	Lys-18 to Lys-30.			
HNAAE01	HNAAE01R	1247	2 - 196	3422	Lys-18 to Lys-30.			
HNBUP08	HNBUP08R	1248	127 - 474	3423	Pro-37 to Arg-46, Gln-75 to Gly-81, Pro-83 to Ser-89.	L0766: 5, L0751: 4, H0662: 2, H0253: 2, L0754: 2, L0750: 2, H0170: 1, H0587: 1, H0327: 1, H0688: 1,		

HNBUY37	HNBUY37R	1249	2 - 289	3424		H0428: 1, S0210: 1, L0763: 1, L0770: 1, L0769: 1, L0646: 1, L0662: 1, L0803: 1, L0776: 1, L0655: 1, L0658: 1, L0659: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, H0658: 1, H0670: 1, H0660: 1, S0380: 1, L0740: 1, L0755: 1, L0758: 1, L0589: 1, L0361: 1 and S0192: 1.		
HNBYL57	HNBYL57R	1250	179 - 541	3425		L0783: 4, S0280: 2, H0662: 1, H0550: 1, L0764: 1, L0662: 1, L0809: 1 and H0684: 1.		
HNHBC18	HNHBC18R	1251	1 - 279	3426				
HNJFE85	HNJFE85R	1252	2 - 454	3427				
HNKCO29	HNKCO29R	1253	1 - 351	3428				
HNOAA22	HNOAA22R	1254	33 - 425	3429				
HNOAB27	HNOAB27R	1255	397 - 621	3430				
HNOAB28	HNOAB28R	1256	116 - 232	3431				
HNOAB88	HNOAB88R	1257	3 - 551	3432				
HNOAC04	HNOAC04R	1258	112 - 219	3433				
HNOAC15	HNOAC15R	1259	1 - 138	3434				

HNOAE50	HNOAE50R	1260	89 - 577	3435	Thr-5 to Thr-14, Arg-20 to His-25, Arg-35 to Gly-40, Lys-58 to Arg-66, His-101 to Ser-107, Arg-111 to Lys-125, Leu-131 to Glu-140.			
HNOAE65	HNOAE65R	1261	2 - 535	3436	Pro-13 to Arg-21, Ser-42 to Phe-52, Lys-69 to Val-77, Ile-82 to Glu-87, Gly-93 to Gln-99, Val-118 to Asn-124, Lys-143 to Leu-152, Arg-154 to Glu-178.			
HNOAF22	HNOAF22R	1262	67 - 555	3437	Thr-5 to Thr-14, Arg-20 to His-25, Arg-35 to Gly-40, Lys-58 to Arg-66, His-101 to Ser-107, Arg-111 to Lys-125, Leu-131 to Arg-139, Arg-145 to Leu-153.			
HNOAF36	HNOAF36R	1263	2 - 145	3438	Arg-11 to Pro-17.	H0651: 2		
HNOAG34	HNOAG34R	1264	42 - 362	3439				
HNOAG94	HNOAG94R	1265	28 - 177	3440				
HNOAH67	HNOAH67R	1266	2 - 364	3441				
HNOAJ67	HNOAJ67R	1267	3 - 524	3442	Cys-2 to Gly-7.			
HNOAJ76	HNOAJ76R	1268	351 - 536	3443	Trp-6 to Glu-12.	H0134: 9, L0771: 8,		

L0748: 7, L0731: 6, L0591: 6, L0592: 6, L0770: 5, L0747: 5, L0749: 5, L0750: 5, H0136: 5, H0050: 4, H0625: 4, H0529: 4, L0769: 4, L0752: 4, L0758: 4, S0007: 3, S0045: 3, H0591: 3, H0561: 3, L0761: 3, L0645: 3, L0766: 3, L0655: 3, L0657: 3, L0666: 3, H0696: 3, H0436: 3, L0754: 3, L0756: 3, L0755: 3, H0543: 3, H0686: 2, H0125: 2, S0420: 2, S0376: 2, H0351: 2, H0581: 2, S0049: 2, H0052: 2, L0163: 2, H0428: 2, H0090: 2, H0040: 2, T0041: 2, H0494: 2, H0646: 2, L0763: 2, L0521: 2, L0776: 2, L0665: 2, H0144: 2, L0751: 2, L0745: 2, S0031: 2, L0581: 2, L0608: 2, H0170: 1, H0171: 1, H0394: 1, S0114: 1,							
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HNOAK11	HNOAK11R	1269	2 - 157	3444			H0704: 1, S0044: 1, H0187: 1, S0028: 1, L0740: 1, L0779: 1, L0777: 1, L0753: 1, L0759: 1, L0596: 1, L0597: 1, L0595: 1, S0026: 1, H0217: 1 and S0384: 1.		
HNOAL51	HNOAL51R	1270	43 - 207	3445					
HNOAN85	HNOAN85R	1271	1 - 180	3446					
HNOAO59	HNOAO59R	1272	403 - 759	3447					
HNOAO71	HNOAO71R	1273	2 - 283	3448					
HNOAP21	HNOAP21R	1274	2 - 730	3449					
HNOAQ24	HNOAQ24R	1275	2 - 664	3450					

H0575: 2, H0618: 2, H0253: 2, H0052: 2, H0545: 2, H0123: 2, H0687: 2, H0428: 2, H0100: 2, L0662: 2, L0806: 2, L0657: 2, L0659: 2, L0664: 2, H0691: 2, H0651: 2, L0744: 2, L0592: 2, L0599: 2, L0601: 2, S0040: 1, S0212: 1, H0483: 1, H0255: 1, H0663: 1, S0354: 1, H0208: 1, S022: 1, H0441: 1, H0357: 1, H0455: 1, H0592: 1, H0331: 1, N0009: 1, H0013: 1, S0280: 1, H0349: 1, H0042: 1, S0049: 1, H0327: 1, H0544: 1, H0178: 1, H0012: 1, H0246: 1, H0024: 1, H0071: 1, H0107: 1, S028: 1, H0266: 1, T0023: 1, T0006: 1, H0124: 1, S0036: 1, H0264: 1, H0059: 1, H0633: 1, H0647: 1, S0142: 1, L0369: 1, L0371: 1,
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HNOAQ47	HNOAQ47R	1276	1 - 642	3451	Ser-15 to Glu-23, Val-33 to Gly-40, Arg-47 to Pro-59, Ser-64 to Phe-70, Gly-92 to Lys-97, Lys-155 to Glu-166.	L0770: 1, L0769: 1, L0645: 1, L0764: 1, L0768: 1, L0775: 1, L0651: 1, L0525: 1, L0378: 1, L0653: 1, L0518: 1, L0809: 1, L0789: 1, L0792: 1, H0520: 1, S0126: 1, H0659: 1, H0658: 1, H0672: 1, H0539: 1, H0521: 1, S0044: 1, S0028: 1, L0743: 1, L0748: 1, S0031: 1, L0485: 1, H0653: 1, H0665: 1, H0667: 1, S0192: 1 and L0698: 1.		
HNOAR74	HNOAR74R	1277	122 - 400	3452	Pro-5 to Gly-11, Ser-20 to Ser-27.	L0794: 3, H0657: 2, L0766: 2, L0783: 2, L0789: 2, L0777: 2, L0759: 2, H0656: 1, S0116: 1, S0444: 1, S0360: 1, H0431: 1, S0010: 1, H0052: 1, H0596: 1, H0687: 1,		

HNOAR85	HNOAR85R	1278	278 - 562	3453	Ser-48 to Leu-56, Ser-70 to Val-75, Thr-83 to Ala-92.	H0634: 1, L0637: 1, L0648: 1, L0649: 1, L0804: 1, L0774: 1, L0776: 1, L0655: 1, L0606: 1, L0809: 1, H0144: 1, H0698: 1, L0438: 1, H0690: 1, H0660: 1, H0651: 1, L0747: 1, L0749: 1, L0758: 1, L0601: 1, S0242: 1, S0196: 1 and H0543: 1.		
						L0758: 6, H0031: 4, H0341: 3, S0022: 3, S0376: 2, H0586: 2, H0156: 2, H0575: 2, L0769: 2, L0803: 2, L0655: 2, L0809: 2, H0522: 2, S0027: 2, H0445: 2, S0412: 2, H0656: 1, S0358: 1, S0360: 1, H0574: 1, H0486: 1, H0013: 1, H0318: 1, H0327: 1, L0157: 1, H0015: 1, H0083: 1, S0003: 1, S0214: 1, H0039: 1, H0673: 1, H0591: 1, T0067: 1, H0412: 1, H0494: 1, H0529: 1,		

HNOAS07	HNOAS07R	1279	84 - 521	3454	Asn-80 to Gly-86, Glu-133 to Arg-138.	L0372: 1, L0764: 1, L0794: 1, L0649: 1, L0774: 1, L0775: 1, L0651: 1, L0807: 1, L0657: 1, L0789: 1, L0663: 1, H0519: 1, S0126: 1, H0684: 1, H0660: 1, H0666: 1, H0651: 1, H0518: 1, H0521: 1, S0028: 1, L0747: 1, L0777: 1, L0731: 1, S0194: 1, H0543: 1 and S0424: 1.	
HNOAS36	HNOAS36R	1280	3 - 254	3455	Leu-1 to Thr-7, Pro-39 to Ser-48, Trp-62 to Thr-68.		
HNOAS92	HNOAS92R	1281	2 - 385	3456	Pro-28 to Tyr-37, Leu-52 to Trp-57, Lys-109 to Leu-114.	H0457: 4, H0441: 3, H0393: 2, H0052: 2, H0620: 2, S0144: 2, H0521: 2, H0341: 1, S0358: 1, H0587: 1, H0632: 1, H0581: 1, H0309: 1, L0471: 1, H0622: 1, H0424: 1, H0213: 1, S0366: 1, H0163: 1, H0132: 1, S0142: 1, H0529: 1, H0547: 1, H0651: 1,	

HNOAT40	HNOAT40R	1282	96 - 317	3457	<p>S3014: 1, L0748: 1, L0777: 1 and L0599: 1. L0794: 5, H0052: 4, H0457: 4, L0438: 4, H0651: 4, H0581: 3, L0777: 3, S0116: 2, S0007: 2, S0222: 2, S0049: 2, N0006: 2, L0163: 2, S6028: 2, L0351: 2, H0130: 2, L0638: 2, L0803: 2, L0805: 2, L0439: 2, L0754: 2, L0750: 2, L0755: 2, H0580: 1, H0645: 1, H0486: 1, H0013: 1, S0346: 1, H0099: 1, L0157: 1, H0567: 1, H0562: 1, H0050: 1, T0010: 1, H0606: 1, H0040: 1, H0063: 1, S0210: 1, L0761: 1, L0667: 1, L0774: 1, L0526: 1, L0532: 1, L0666: 1, L0665: 1, H0658: 1, H0521: 1, H0576: 1, L0753: 1, L0758: 1, L0759: 1, L0593: 1, L0366: 1, H0543: 1 and S0462: 1.</p>		
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HNOAT76	HNOAT76R	1283	2 - 187	3458	Lys-28 to Tyr-49, Arg-75 to Ala-83, Thr-90 to Ala-95, Arg-107 to Asp-114, Arg-137 to Ser-146.			
HNOAV91	HNOAV91R	1284	2 - 439	3459				
HNOBD17	HNOBD17R	1285	98 - 316	3460	Arg-1 to Gly-6, Lys-21 to Gly-29, Gln-51 to Gly-56, Pro-82 to Asp-90, Lys-175 to Ser-180.	L0747: 16, H0651: 10, H0561: 9, L0758: 8, H0046: 7, L0663: 7, S0026: 7, H0656: 6, H0393: 6, H0494: 6, L0774: 6, L0659: 6, L0665: 6, L0750: 6, L0731: 6, L0596: 6, H0543: 6, H0341: 5, H0575: 5, H0529: 5, L0662: 5, L0655: 5, H0539: 5, L0439: 5, L0752: 5, S0114: 4, H0657: 4, H0351: 4, H0581: 4, H0551: 4, H0560: 4, S0372: 4, L0769: 4, L0764: 4, L0776: 4, H0144: 4, H0660: 4, H0648: 4, H0672: 4, S0028: 4, L0749: 4, L0362: 4, H0580: 3, H0497: 3, H0486: 3, H0318: 3,		
HNOBE83	HNOBE83R	1286	2 - 607	3461				

H0014: 3, H0373: 3, H0553: 3, H0038: 3, T0041: 3, S0002: 3, L0761: 3, L0664: 3, S0126: 3, H0658: 3, H0666: 3, S0380: 3, S0152: 3, H0521: 3, H0707: 3, L0589: 3, L0605: 3, L0599: 3, L0593: 3, H0423: 3, H0265: 2, H0661: 2, S0356: 2, S0358: 2, S0360: 2, S0408: 2, S0410: 2, S0046: 2, H0409: 2, S0280: 2, H0251: 2, L0738: 2, L0471: 2, H0057: 2, L0185: 2, H0594: 2, H0188: 2, S0003: 2, H0090: 2, H0412: 2, H0413: 2, S0440: 2, S0150: 2, S0144: 2, H0538: 2, L0763: 2, L0627: 2, L0775: 2, L0653: 2, H0519: 2, H0435: 2, H0659: 2, H0436: 2, H0478: 2, S0027: 2, L0756: 2, L0755: 2, L0759: 2, H0445: 2, L0588: 2,						
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L0590: 2, H0542: 2, H0422: 2, H0171: 1, L0448: 1, H0556: 1, H0222: 1, S0342: 1, H0650: 1, S0035: 1, H0483: 1, H0671: 1, H0662: 1, H0449: 1, H0459: 1, H0125: 1, S0420: 1, S0354: 1, S0444: 1, S0045: 1, H0443: 1, H0370: 1, H0392: 1, L0622: 1, L0623: 1, T0040: 1, H0013: 1, H0635: 1, H0427: 1, H0156: 1, H0590: 1, S0010: 1, H0052: 1, T0110: 1, H0597: 1, H0546: 1, H0009: 1, H0093: 1, S0051: 1, T0010: 1, H0510: 1, H0267: 1, H0687: 1, H0252: 1, H0428: 1, H0039: 1, H0622: 1, H0181: 1, H0032: 1, H0068: 1, H0598: 1, H0040: 1, H0087: 1, T0067: 1, H0488: 1, L0564: 1, T0042: 1, H0625: 1, H0130: 1, H0641: 1,
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HNOBV55	HNOBV55R A	1287	111 - 506	3462	Pro-14 to Gly-22, Ile-31 to Ala-36, Lys-53 to Ile-65.	H0633: 1, S0208: 1, S0422: 1, S0426: 1, L0520: 1, L0762: 1, L0770: 1, L0796: 1, L0630: 1, L0646: 1, L0773: 1, L0766: 1, L0381: 1, L0388: 1, L0804: 1, L0650: 1, L0375: 1, L0651: 1, L0784: 1, L0656: 1, L0518: 1, L0519: 1, L0530: 1, L0368: 1, S0053: 1, S0374: 1, H0547: 1, H0689: 1, H0682: 1, H0684: 1, H0670: 1, H0518: 1, S0013: 1, H0704: 1, S0044: 1, H0214: 1, S0404: 1, S0406: 1, H0555: 1, H0576: 1, S0392: 1, L0751: 1, S0031: 1, H0444: 1, S0106: 1, S0011: 1, H0667: 1, S0192: 1, S0242: 1, S0276: 1, L0697: 1 and L0360: 1.		
HNOCE63	HNOCE63R	1288	2 - 394	3463	Val-2 to Leu-20.			

HNOCL43	HNOCL43R	1289	2 - 193	3464					
HNOCN02	HNOCN02R	1290	1 - 624	3465					
HNOCN10	HNOCN10R	1291	1 - 453	3466					H0556: 1, H0265: 9, H0012: 4, H0616: 4, H0393: 3, H0620: 3, L0163: 3, H0135: 3, S0002: 3, H0651: 3, L0596: 3, H0542: 3, H0543: 3, S0418: 2, S0045: 2, H0266: 2, S0150: 2, H0521: 2, L0591: 2, S0040: 1, H0341: 1, H0663: 1, S0354: 1, S0358: 1, S0046: 1, S0222: 1, H0586: 1, H0486: 1, H0635: 1, H0618: 1, H0581: 1, S0049: 1, H0263: 1, T0103: 1, T0110: 1, H0009: 1, T0003: 1, H0373: 1, S0051: 1, S0336: 1, H0290: 1, H0286: 1, H0328: 1, H0622: 1, H0553: 1, H0124: 1, H0090: 1, S0038: 1, H0100: 1, T0042: 1, S0015: 1, H0560: 1, H0509: 1, H0130: 1, L0654: 1, H0144: 1,

HNOCR44	HNOCR44R	1292	3 - 581	3467	Pro-1 to Lys-10, Phe-31 to Asn-37, Gln-42 to Leu-50, Arg-58 to Gln-65, Leu-86 to Ala-91, Tyr-101 to Ala-111.	L0438: 1, H0547: 1, H0519: 1, H0593: 1, H0435: 1, L0602: 1, S0332: 1, H0522: 1, H0134: 1, S3014: 1, L0439: 1, H0445: 1, S0434: 1, L0485: 1, L0604: 1, L0593: 1, L0594: 1, L0601: 1, H0422: 1 and S0398: 1.		
HNOCU03	HNOCU03R	1293	1 - 258	3468	Glu-1 to Asp-6.			
HNODD77	HNODD77R	1294	204 - 407	3469				
HNODG11	HNODG11R	1295	63 - 320	3470	Ser-47 to Ile-53.			
HNODM92	HNODM92R	1296	269 - 583	3471	Gly-35 to Glu-41.			
HNODP28	HNODP28R	1297	480 - 707	3472				
HN0JA93	HN0JA93R	1298	1 - 453	3473	Gly-13 to Lys-20, Ala-26 to Lys-32, Ala-83 to Leu-88, Gly-128 to Val-135, Phe-142 to Asn-151.			
HN0JB10	HN0JB10R	1299	2 - 391	3474		S0358: 7, L0750: 7, S0360: 6, H0617: 5, S0126: 4, H0545: 3,		

L0776: 3, S0374: 3, L0748: 3, L0755: 3, L0588: 3, H0422: 3, H0685: 2, H0549: 2, H0550: 2, H0632: 2, H0546: 2, H0424: 2, H0163: 2, H0551: 2, L0665: 2, H0593: 2, H0660: 2, S0330: 2, L0747: 2, L0749: 2, L0777: 2, L0757: 2, S0031: 2, H0556: 1, H0686: 1, H0295: 1, S0430: 1, H0657: 1, H0341: 1, H0662: 1, S0278: 1, H0282: 1, H0592: 1, H0586: 1, H0486: 1, T0039: 1, T0109: 1, H0004: 1, H0581: 1, H0309: 1, H0596: 1, T0110: 1, H0231: 1, H0123: 1, H0620: 1, H0083: 1, H0594: 1, H0687: 1, L0483: 1, H0644: 1, H0361: 1, H0087: 1, H0413: 1, H0059: 1, H0494: 1, S0306: 1, S0440: 1, H0509: 1, H0529: 1, L0762: 1,
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HNOJB57	HNOJB57R	1300	2 - 355	3475	Arg-8 to Gln-18, Thr-24 to Gly-35, Lys-53 to Gly-61, Pro-77 to Cys-82, Pro-103 to Gln-117.						
HNOJD14	HNOJD14R	1301	2 - 439	3476	Leu-14 to Arg-20, Ser-29 to Ser-38, Pro-43 to Gly-52.						
HNOJF20	HNOJF20R	1302	10 - 165	3477							
HNOJG05	HNOJG05R	1303	288 - 572	3478	Ile-34 to Ala-40.						
HNOJH48	HNOJH48R	1304	2 - 283	3479	Arg-70 to Ser-78.				L0748: 17, L0749: 13,		

L0666: 9, H0547: 8, L0758: 8, S0358: 7, S0003: 7, L0734: 7, L0485: 7, S0280: 6, H0038: 6, H0521: 6, S0014: 6, L0777: 6, L0755: 6, H0068: 5, L0659: 5, L0665: 5, L0744: 5, L0740: 5, L0591: 5, H0657: 4, H0656: 4, S0116: 4, H0318: 4, H0266: 4, H0687: 4, H0031: 4, H0040: 4, S0002: 4, S0206: 4, L0752: 4, H0445: 4, H0542: 4, H0423: 4, H0497: 3, H0013: 3, H0427: 3, H0046: 3, H0014: 3, H0615: 3, L0142: 3, S0036: 3, H0090: 3, H0551: 3, S0440: 3, L0662: 3, L0767: 3, H0696: 3, S0027: 3, S0028: 3, L0731: 3, L0362: 3, S0196: 3, H0662: 2, H0638: 2, H0580: 2, S0045: 2, S0222: 2, H0587: 2, H0486: 2, H0706: 2,
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S0010: 2, S0346: 2, T0048: 2, S0474: 2, H0581: 2, H0428: 2, L0483: 2, H0553: 2, S0366: 2, H0634: 2, H0616: 2, H0412: 2, H0623: 2, L0763: 2, L0637: 2, L0667: 2, L0646: 2, L0768: 2, L0774: 2, L0657: 2, L0663: 2, H0144: 2, S0374: 2, H0520: 2, H0519: 2, S0126: 2, S0328: 2, S0146: 2, H0555: 2, H0436: 2, L0747: 2, L0595: 2, S0026: 2, S0194: 2, H0506: 2, L0600: 2, H0170: 1, H0171: 1, H0556: 1, T0002: 1, H0686: 1, S0114: 1, T0049: 1, S0001: 1, S0282: 1, H0663: 1, H0305: 1, S0356: 1, S0444: 1, H0329: 1, S0046: 1, L0717: 1, H0411: 1, H0550: 1, H0441: 1, H0370: 1, H0600: 1, S0005: 1, H0333: 1, H0331: 1,						
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							L0791: 1, L0664: 1, H0691: 1, H0689: 1, H0683: 1, H0435: 1, H0660: 1, H0648: 1, H0672: 1, H0539: 1, S0380: 1, H0710: 1, S0152: 1, S0013: 1, S0174: 1, H0478: 1, L0743: 1, L0750: 1, L0757: 1, S0031: 1, H0707: 1, L0588: 1, L0592: 1, L0599: 1, L0608: 1, L0604: 1, L0593: 1, H0668: 1, H0667: 1, S0192: 1, S0276: 1, H0422: 1, H0352: 1 and H0712: 1.		
HNOJH52	HNOJH52R	1305	3 - 200	3480					
HNOJH82	HNOJH82R	1306	1 - 489	3481	Lys-36 to Gln-48, Gln-56 to Ser-72, Gly-82 to Val-105, Lys-114 to Lys-120, Ser-122 to Cys-133.				
HNOJH85	HNOJH85R	1307	1 - 552	3482	Ala-1 to Ser-6.	L0754: 5, L0731: 4, L0748: 3, L0750: 3, H0411: 2, H0012: 2, H0687: 2, H0644: 2, L0803: 2, H0550: 1, L0021: 1, H0599: 1, L0022: 1, H0042: 1,			

								H0575: 1, H0150: 1, H0620: 1, T0003: 1, H0673: 1, L0662: 1, L0650: 1, L0774: 1, L0375: 1, L0807: 1, L0515: 1, L0659: 1, L0666: 1, S0374: 1, H0694: 1, L0747: 1, L0749: 1, L0779: 1 and L0755: 1.			
HNOIJ20	HNOIJ20R	1308	1 - 261	3483			Lys-19 to Asn-25, Pro-61 to Lys-66.				
HNOIJ26	HNOIJ26R	1309	2 - 385	3484			Ser-27 to Gly-38, Ser-63 to Trp-72, Trp-79 to Asn-84, Arg-133 to Trp-139				
HNOIK66	HNOIK66R	1310	1 - 462	3485				L0588: 14, S0046: 13, S0045: 12, T0049: 7, H0599: 7, L0662: 7, L0599: 7, H0427: 6, T0048: 6, H0575: 5, L0747: 5, H0254: 4, H0618: 4, H0617: 4, H0124: 4, H0413: 4, H0052: 3, H0024: 3, H0553: 3, H0269: 3, H0412: 3, H0056: 3, H0623: 3, L0764: 3, L0659: 3, L0809: 3, L0666: 3, L0750: 3, L0758: 3, L0600: 3, S0001: 2, H0255: 2, H0661: 2, H0619: 2,			

S6022: 2, H0587: 2, S0280: 2, H0253: 2, H0150: 2, H0050: 2, H0188: 2, H0644: 2, S0364: 2, S0036: 2, L0369: 2, L0768: 2, L0803: 2, L0775: 2, L0375: 2, L0783: 2, L0438: 2, L0743: 2, L0748: 2, L0439: 2, L0779: 2, L0604: 2, S6024: 1, L0785: 1, S0360: 1, H0208: 1, L0717: 1, H0437: 1, H0369: 1, H0549: 1, H0042: 1, H0309: 1, H0085: 1, H0263: 1, H0123: 1, S0050: 1, L0163: 1, H0266: 1, H0687: 1, H0039: 1, H0622: 1, H0030: 1, H0031: 1, H0163: 1, H0616: 1, H0063: 1, H0264: 1, H0268: 1, L0763: 1, L0536: 1, L0769: 1, L0638: 1, L0643: 1, L0648: 1, L0794: 1, L0804: 1, L0774: 1, L0651: 1, L0378: 1, L0806: 1,
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HNOJL59	HNOJL59R	1311	204 - 479	3486	Glu-1 to Ser-9, Pro-60 to Gln-66.	L0555: 1, L0634: 1, L0788: 1, L0663: 1, L0665: 1, S0044: 1, S0190: 1, L0744: 1, L0749: 1, L0731: 1, H0445: 1, L0589: 1, L0361: 1, L0366: 1 and S0458: 1.		
HNOJM64	HNOJM64R	1312	3 - 428	3487	Gly-105 to Glu-110, Ala-133 to Tyr-142.			
HNOJO55	HNOJO55R	1313	426 - 265	3488				
HNOJP42	HNOJP42R	1314	12 - 302	3489	Trp-42 to Glu-50.			
HNOJQ22	HNOJQ22R	1315	1 - 510	3490	Phe-164 to Leu-170.			
HNOKA20	HNOKA20R	1316	2 - 268	3491	Gln-30 to Gly-36, Lys-43 to Lys-54, Thr-73 to Ile-79.			
HNOKD74	HNOKD74R	1317	2 - 85	3492				
HNOKG34	HNOKG34R	1318	1 - 510	3493	Lys-17 to Leu-27, Thr-39 to Leu-44, Asp-62 to Gly-70, Arg-89 to Asp-94, Arg-102 to Gly-113, Lys-127 to Glu-132, Thr-152 to Arg-160.			
HNOKG69	HNOKG69R	1319	188 - 418	3494				
HNOKG71	HNOKG71R	1320	2 - 331	3495	Gly-8 to Ala-15, Leu-33 to His-50.			

HNOKH94	HNOKH94R	1321	214 - 411	3496	Phe-59 to Gly-64, Gly-70 to Gly-84, Thr-20 to Asp-27, His-39 to Thr-44.	L0666: 11, S0358: 8, L0752: 8, L0749: 5, L0362: 5, L0771: 4, L0803: 4, L0528: 4, L0664: 4, L0740: 4, L0754: 4, L0599: 4, L0769: 3, L0662: 3, L0657: 3, L0659: 3, L0663: 3, L0748: 3, L0750: 3, L0757: 3, L0758: 3, H0171: 2, S0360: 2, H0574: 2, H0251: 2, L0483: 2, H0412: 2, H0509: 2, L0770: 2, L0774: 2, L0775: 2, L0665: 2, H0690: 2, S0330: 2, L0755: 2, L0731: 2, L0595: 2, H0624: 1, H0170: 1, H0685: 1, H0656: 1, H0663: 1, H0305: 1, H0589: 1, S0356: 1, S0354: 1, H0580: 1, S0132: 1, S0300: 1, L0717: 1, H0331: 1, H0013: 1, H0108: 1, L0105: 1, H0052: 1, H0546: 1,		
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HNOK106	HNOK106R	1322	3 - 419	3497	<p>Asp-36 to Glu-46, Gln-52 to Ile-61, Leu-76 to Lys-87, Asn-100 to Val-108, Ser-120 to Gln-128.</p>	<p>H0123: 1, H0024: 1, H0373: 1, H0266: 1, H0687: 1, L0142: 1, H0628: 1, H0673: 1, H0598: 1, H0038: 1, H0529: 1, L0763: 1, L0637: 1, L0761: 1, L0646: 1, L0641: 1, L0768: 1, L0804: 1, L0650: 1, L0776: 1, L0656: 1, L0526: 1, L0367: 1, S0374: 1, H0691: 1, H0519: 1, H0682: 1, H0684: 1, H0648: 1, L0602: 1, S0454: 1, L0439: 1, L0747: 1, L0779: 1, L0780: 1, L0753: 1, L0759: 1, S0434: 1, L0591: 1, L0592: 1, L0608: 1, L0366: 1, S0194: 1 and H0542: 1, S0410: 13, L0766: 5, H0657: 4, S0422: 4, H0547: 4, S0408: 3, L0758: 3, S0444: 2, H0587: 2, H0486: 2, H0013: 2, H0581: 2, L0471: 2, L0764: 2, L0794: 2, L0666: 2,</p>		
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						L0663: 2, H0520: 2, H0660: 2, H0436: 2, L0740: 2, L0751: 2, H0445: 2, S0436: 2, S0400: 1, H0351: 1, H0411: 1, H0632: 1, H0575: 1, S0010: 1, H0318: 1, H0596: 1, T0110: 1, H0545: 1, H0046: 1, H0567: 1, H0373: 1, S6028: 1, H0687: 1, H0031: 1, H0553: 1, H0617: 1, H0264: 1, S0386: 1, S0440: 1, H0646: 1, L0761: 1, L0646: 1, L0771: 1, L0662: 1, L0774: 1, L0805: 1, L0653: 1, L0655: 1, L0664: 1, H0519: 1, H0521: 1, H0478: 1, L0756: 1, L0752: 1, L0759: 1, S0434: 1, L0362: 1, S0192: 1 and H0543: 1.		
HNOKI89	HNOKI89R	1323	2 - 370	3498	Glu-1 to Pro-7, Asp-25 to Leu-31, Arg-54 to Lys-73.			
HNOKN33	HNOKN33R	1324	57 - 284	3499	Pro-7 to Gly-20.	L0751: 9, H0556: 8, H0617: 8, L0777: 6,		



L0809: 5, L0741: 5, L0754: 5, L0779: 5, S0222: 4, L0769: 4, L0659: 4, L0438: 4, L0748: 4, H0208: 3, H0052: 3, H0009: 3, S0051: 3, T0010: 3, H0521: 3, L0747: 3, L0731: 3, L0758: 3, S0408: 2, S0476: 2, H0575: 2, H0253: 2, H0545: 2, H0687: 2, H0615: 2, H0181: 2, H0135: 2, H0494: 2, L5566: 2, L0666: 2, L0664: 2, L0565: 2, H0445: 2, S6024: 1, S0134: 1, S0001: 1, S0282: 1, S0400: 1, H0459: 1, S0354: 1, S0360: 1, H0580: 1, S0007: 1, H0639: 1, S0278: 1, H0441: 1, H0370: 1, H0438: 1, S0280: 1, H0036: 1, H0618: 1, S0049: 1, H0196: 1, H0235: 1, H0597: 1, H0231: 1, H0327: 1, H0566: 1, H0024: 1, L0163: 1,
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HNOKO45	HNOKO45R	1325	67 - 171	3500	H0594: 1, H0424: 1, H0213: 1, H0030: 1, H0031: 1, H0598: 1, H0100: 1, L0351: 1, H0560: 1, H0625: 1, H0561: 1, H0633: 1, S0144: 1, S0002: 1, S0426: 1, L0763: 1, L0770: 1, L0772: 1, L0372: 1, L0645: 1, L0662: 1, L0767: 1, L0651: 1, L0378: 1, L0776: 1, L0657: 1, L0783: 1, L0382: 1, L0663: 1, S0052: 1, H0520: 1, H0547: 1, H0670: 1, S0378: 1, S0380: 1, H0522: 1, H0555: 1, S3014: 1, L0743: 1, L0756: 1, L0753: 1, L0759: 1, S0031: 1, S0434: 1, L0581: 1, L0595: 1, L0366: 1 and H0423: 1, L0665: 14, L0666: 13, L0662: 10, L0659: 10, L0646: 9, L0655: 7, L0663: 7, H0648: 7, L0775: 6, L0717: 5, L0657: 5, H0436: 5,		
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L0756: 5, L0731: 5, L0766: 4, L0748: 4, S0212: 3, L0598: 3, L0637: 3, L0761: 3, L0664: 3, H0658: 3, L0742: 3, L0439: 3, L0747: 3, L0750: 3, L0755: 3, L0758: 3, L0604: 3, L0595: 3, H0686: 2, L0002: 2, S0376: 2, S0360: 2, S6026: 2, H0351: 2, S0222: 2, H0455: 2, L0471: 2, H0014: 2, T0006: 2, S0440: 2, S0422: 2, L0667: 2, L0641: 2, L0764: 2, L0768: 2, L0774: 2, L0776: 2, L0527: 2, L0636: 2, L0783: 2, S0374: 2, H0539: 2, L0749: 2, L0596: 2, L0589: 2, L0591: 2, L0592: 2, L0599: 2, L0594: 2, L0362: 2, H0170: 1, S0218: 1, H0657: 1, H0656: 1, L0808: 1, S0400: 1, H0402: 1, S0442: 1, S0444: 1, S0408: 1,							
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H0549: 1, H0441: 1, H0415: 1, H0587: 1, L0622: 1, H0486: 1, T0039: 1, H0156: 1, H0318: 1, H0173: 1, H0196: 1, H0597: 1, L0041: 1, H0011: 1, H0057: 1, H0373: 1, H0051: 1, S0051: 1, T0010: 1, H0399: 1, H0061: 1, H0687: 1, H0328: 1, L0055: 1, H0673: 1, H0551: 1, H0413: 1, T0041: 1, H0649: 1, UNKNWN: 1, L0762: 1, L0763: 1, L0371: 1, L0769: 1, L0373: 1, L0521: 1, L0364: 1, L0649: 1, L0803: 1, L0650: 1, L0378: 1, L0653: 1, L0606: 1, L0607: 1, L0661: 1, L0512: 1, L0656: 1, L4669: 1, L0517: 1, L0526: 1, L0809: 1, L0647: 1, L2269: 1, L0438: 1, H0519: 1, H0659: 1, H0660: 1, H0651: 1, S0328: 1, S0380: 1,							
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HNOKT24	HNOKT24R	1326	98 - 457	3501	Lys-1 to Glu-6, Pro-8 to Gln-21, Ser-43 to Glu-51, Val-61 to Gly-68, Arg-75 to Pro-87, Ser-92 to Phe-98.	H0710: 1, H0579: 1, S0404: 1, S0406: 1, L0740: 1, L0754: 1, L0777: 1, L0759: 1, S0308: 1, L0605: 1, L0581: 1, L0608: 1, L0601: 1, H0543: 1, S0412: 1, S0424: 1 and H0506: 1.		
HNOKU52	HNOKU52R	1327	3 - 509	3502	Lys-13 to Ser-41, Lys-57 to Lys-66, Lys-89 to Lys-97, Lys-113 to Ala-118, Pro-131 to Ala-147, Ala-159 to Ala-169.			
HNOKV82	HNOKV82R	1328	3 - 488	3503	Lys-24 to Lys-31, Gly-132 to Glu-137.			
HNOKZ03	HNOKZ03R	1329	216 - 401	3504		H0624: 10, S0192: 8, S0022: 7, S0212: 5, H0031: 4, H0412: 4, S0028: 4, L0747: 4, S0194: 4, H0717: 3, H0427: 3, L0471: 3, S0250: 3, H0039: 3,		

H0644: 3, H0040: 3, H0059: 3, H0144: 3, H0547: 3, S0126: 3, S0037: 3, S0027: 3, S0206: 3, L0439: 3, H0713: 2, H0661: 2, S0360: 2, H0208: 2, S0045: 2, S0046: 2, H0587: 2, H0486: 2, H0575: 2, H0024: 2, H0266: 2, H0622: 2, H0551: 2, S0210: 2, H0520: 2, L0740: 2, L0731: 2, L0605: 2, H0170: 1, H0171: 1, S0040: 1, H0716: 1, H0294: 1, S0116: 1, S0420: 1, S0442: 1, H0619: 1, S0300: 1, H0592: 1, H0586: 1, H0485: 1, H0156: 1, H0590: 1, S0474: 1, S0049: 1, H0596: 1, H0544: 1, H0045: 1, H0012: 1, H0620: 1, H0014: 1, T0010: 1, H0687: 1, S0003: 1, H0615: 1, H0030: 1, S0364: 1, S0366: 1, H0090: 1, H0038: 1,
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HNORA56	HNORA56R	1330	2 - 595	3505	Leu-24 to Thr-39, Gln-70 to Glu-81, Arg-86 to Leu-98, Glu-104 to Pro-110, Pro-134 to Arg-157, Val-159 to Asn-166.	H0272: 1, H0334: 1, S0150: 1, L0598: 1, L0767: 1, L0766: 1, L0791: 1, L0792: 1, L0665: 1, T0068: 1, L0438: 1, H0660: 1, S3014: 1, L0744: 1, L0754: 1, L0749: 1, L0757: 1, L0759: 1, L0588: 1, L0589: 1, L0591: 1, L0592: 1, S0011: 1, H0665: 1, H0667: 1 and H0506: 1.		
HNORB68	HNORB68R	1331	1 - 210	3506	Gly-1 to Ser-22, Pro-29 to Lys-70.			
HNORC14	HNORC14R	1332	2 - 499	3507		S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0518: 6, L0754: 6, L0752: 6, S0280: 5.		

H0575: 5, S0358: 4, S0346: 4, L0753: 4, H0170: 3, H0662: 3, S0360: 3, H0427: 3, L0471: 3, H0373: 3, L0638: 3, L0637: 3, L0764: 3, L0774: 3, L0809: 3, L0666: 3, S0310: 3, H0672: 3, H0696: 3, L0731: 3, H0506: 3, H0713: 2, S0408: 2, H0411: 2, H0455: 2, H0574: 2, S0414: 2, H0486: 2, H0036: 2, S0049: 2, H0052: 2, H0327: 2, H0687: 2, H0428: 2, H0553: 2, H0644: 2, H0038: 2, L0520: 2, L0762: 2, L0770: 2, L0653: 2, L0517: 2, S0044: 2, L0442: 1, H0583: 1, L0443: 1, S0110: 1, S0282: 1, S0400: 1, H0661: 1, S0348: 1, S0356: 1, S0444: 1, H0329: 1, S0007: 1, H0619: 1, S6026: 1, S0300: 1, L0717: 1, S6022: 1,
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H0550: 1, H0592: 1, H0587: 1, H0599: 1, H0042: 1, H0590: 1, H0318: 1, H0309: 1, H0545: 1, H0563: 1, H0564: 1, H0123: 1, H0019: 1, S0050: 1, L0163: 1, S0388: 1, H0356: 1, H0328: 1, H0688: 1, H0039: 1, T0023: 1, H0031: 1, H0111: 1, H0169: 1, S0364: 1, L0455: 1, H0135: 1, H0163: 1, T0067: 1, T0069: 1, T0004: 1, H0100: 1, S0112: 1, L0370: 1, L0598: 1, L0769: 1, L0630: 1, L0800: 1, L0648: 1, L0363: 1, L0768: 1, L0649: 1, L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0784: 1, L0523: 1, L0805: 1, L0776: 1, L0527: 1, L0657: 1, L0635: 1, L0783: 1, L0789: 1, L0532: 1, L0664: 1, H0691: 1, T0068: 1, S0148: 1,				
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HNORD11	HNORD11R	1333	155 - 430	3508				H0693: 1, H0520: 1, H0593: 1, H0689: 1, H0684: 1, S0330: 1, S0380: 1, S0174: 1, H0555: 1, L0612: 1, L0743: 1, L0748: 1, L0751: 1, L0749: 1, L0779: 1, L0759: 1, L0689: 1, S0434: 1, L0604: 1, L0366: 1, S0106: 1 and S0021: 1.		
HNORE65	HNORE65R	1334	2 - 436	3509	Ala-24 to Lys-29, Lys-51 to Gly-62.			H0585: 20, H0641: 14, H0521: 9, H0141: 5, H0031: 5, H0422: 5, H0644: 4, L0755: 4, H0295: 3, H0638: 3, S0376: 3, H0544: 3, S0440: 3, H0689: 3, H0690: 3, L0757: 3, H0657: 2, S0360: 2, H0586: 2, H0581: 2, H0063: 2, S0144: 2, L0662: 2, H0691: 2, H0520: 2, S0126: 2, H0522: 2, L0740: 2, L0777: 2, H0423: 2, S0298: 1, H0306: 1, S0132: 1, S0278: 1, H0549: 1, S0222: 1,		

HNORF03	HNORF03R	1335	37 - 387	3510	Pro-19 to His-36, Glu-68 to Ala-86.	H0587: 1, H0333: 1, H0575: 1, H0706: 1, H0052: 1, H0309: 1, H0596: 1, H0546: 1, H0545: 1, H0086: 1, H0009: 1, H0284: 1, T0023: 1, L0143: 1, H0551: 1, H0494: 1, S0438: 1, S0002: 1, L0371: 1, L0770: 1, L0769: 1, L0667: 1, L0372: 1, L0646: 1, L0553: 1, L0771: 1, L0774: 1, L0375: 1, L0806: 1, L0382: 1, H0703: 1, H0593: 1, H0682: 1, S0328: 1, S0380: 1, H0555: 1, S0027: 1, L0742: 1, L0747: 1, L0779: 1, L0753: 1, H0445: 1 and H0543: 1.		
						L0439: 6, L0794: 2, L0665: 2, H0691: 2, L0717: 1, H0068: 1, L0761: 1, L0646: 1, L0773: 1, L0662: 1, L0790: 1, L0663: 1, L0438: 1, L0748: 1, L0758: 1, L0592: 1 and		

HNORF04	HNORF04R	1336	1 - 168	3511		L0608: 1.		
HNORF05	HNORF05R	1337	2 - 334	3512	Thr-2 to Phe-7, Gly-18 to Arg-23, Asp-27 to Glu-35.			
HNORF13	HNORF13R	1338	1 - 636	3513	Gly-1 to Thr-10.			
HNORH03	HNORH03R	1339	3 - 680	3514		S0358: 7, L0750: 7, S0360: 6, H0617: 5, S0126: 4, H0545: 3, L0776: 3, S0374: 3, L0748: 3, L0755: 3, L0588: 3, H0422: 3, H0685: 2, H0549: 2, H0550: 2, H0632: 2, H0546: 2, H0424: 2, H0163: 2, H0551: 2, L0665: 2, H0593: 2, H0660: 2, S0330: 2, L0747: 2, L0749: 2, L0777: 2, L0757: 2, S0031: 2, H0556: 1, H0686: 1, H0295: 1, S0430: 1, H0657: 1, H0341: 1, H0662: 1, S0278: 1, H0282: 1, H0592: 1, H0586: 1, H0486: 1, T0039: 1, T0109: 1, H0004: 1, H0581: 1, H0309: 1, H0596: 1, T0110: 1,		

HNORH05	HNORH05R	1340	1 - 498	3515	Arg-13 to Arg-21, Asp-26 to Pro-35,	H0231: 1, H0123: 1, H0620: 1, H0083: 1, H0594: 1, H0687: 1, L0483: 1, H0644: 1, H0361: 1, H0087: 1, H0413: 1, H0059: 1, H0494: 1, S0306: 1, S0440: 1, H0509: 1, H0529: 1, L0762: 1, L0770: 1, L0769: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0775: 1, L0375: 1, L0556: 1, L0655: 1, L0807: 1, L0656: 1, L0659: 1, L0540: 1, L0783: 1, L0384: 1, S0216: 1, H0144: 1, H0691: 1, H0690: 1, H0684: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, S0378: 1, S0380: 1, H0518: 1, H0555: 1, S3014: 1, S0032: 1, L0741: 1, H0445: 1, L0596: 1, S0192: 1, S0194: 1, S0460: 1 and H0352: 1.		
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						Glu-58 to Gly-65, Ser-74 to Pro-82, Gln-107 to Asp-115, Asp-128 to Asn-137, Gln-145 to Arg-154, Gln-161 to Ser-166.				
HNORH35	HNORH35R	1341	20 - 244	3516		Ala-19 to Ser-27, Ser-41 to Val-53.				
HNORJ08	HNORJ08R	1342	3 - 377	3517		Asn-95 to Leu-100.				
HNTRB70	HNTRB70R	1343	144 - 377	3518		Pro-3 to Ile-12, Asn-20 to Glu-25.				
HOCMA02	HOCMA02R A	1344	3 - 530	3519		Ile-121 to Val-129, Ala-136 to Glu-142.	L0742: 10, H0144: 6, H0265: 5, S0116: 4, S0046: 4, S0222: 4, H0556: 3, H0250: 3, H0052: 3, S0027: 3, L0595: 3, S0212: 2, H0306: 2, S0358: 2, H0013: 2, H0618: 2, H0124: 2, H0100: 2, S0053: 2, H0660: 2, S0330: 2, S0312: 2, L0748: 2, L0439: 2, L0745: 2, L0757: 2, H0445: 2, S0342: 1, H0484: 1, H0638: 1, S0007: 1, H0393: 1, H0437: 1, H0549: 1, H0438: 1, H0486: 1,			

HOCMB45	HOCMB45R A	1345	347 - 541	3520	Asn-39 to Gln-44, Leu-47 to Asp-55.	H0253: 1, H0390: 1, H0544: 1, H0046: 1, H0009: 1, H0023: 1, H0007: 1, T0010: 1, H0188: 1, H0687: 1, S0003: 1, H0030: 1, S0364: 1, L0455: 1, S0366: 1, H0090: 1, H0038: 1, H0551: 1, H0412: 1, H0059: 1, S0038: 1, H0130: 1, H0641: 1, S0142: 1, S0002: 1, H0517: 1, L0643: 1, L0771: 1, L0794: 1, L0766: 1, L0775: 1, L0654: 1, L0655: 1, L0352: 1, S0008: 1, H0435: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, H0522: 1, S0044: 1, H0576: 1, L0779: 1, L0605: 1, L0593: 1, S0026: 1, H0667: 1, S0276: 1, S0196: 1, H0542: 1, H0423: 1 and H0506: 1.
HOCMB45	HOCMB45R A	1345	347 - 541	3520	Asn-39 to Gln-44, Leu-47 to Asp-55.	L0439: 17, L0438: 6, H0424: 5, S0007: 4, L0769: 4, H0213: 3.

HOCMB65	HOCMB65R A	1346	241 - 456	3521		L0776: 3, H0660: 3, H0309: 2, S0051: 2, L0789: 2, L0663: 2, L0750: 2, L0757: 2, L0759: 2, S0196: 2, S0040: 1, S0001: 1, H0662: 1, H0402: 1, L0005: 1, S0356: 1, H0052: 1, H0596: 1, H0009: 1, T0010: 1, L0483: 1, T0006: 1, H0033: 1, H0031: 1, H0169: 1, H0634: 1, H0538: 1, L0638: 1, L0643: 1, L0764: 1, L0768: 1, L0803: 1, L0804: 1, L0375: 1, L0606: 1, L0659: 1, L0791: 1, L0352: 1, H0547: 1, L0602: 1, H0436: 1, L0742: 1, L0749: 1, L0777: 1, L0752: 1, L0731: 1, L0758: 1, S0394: 1, L0596: 1 and S0412: 1.		
HOCMC08	HOCMC08R	1347	1 - 426	3522	Lys-18 to Tyr-31, Ile-45 to Asp-50, Trp-78 to Ser-88,			



HOCMF06	HOCMF06R	1348	382 - 588	3523	Pro-102 to Pro-109.			
HOCMF27	HOCMF27R	1349	3 - 395	3524	Glu-1 to Ile-6, Asp-125 to Pro-131.	L0748: 26, H0046: 18, H0510: 7, H0673: 7, L0803: 7, H0169: 6, H0144: 6, L0731: 4, H0574: 3, H0521: 3, H0370: 2, H0615: 2, H0032: 2, T0067: 2, H0509: 2, S0210: 2, L0776: 2, L0749: 2, L0750: 2, L0595: 2, H0170: 1, H0656: 1, H0341: 1, H0151: 1, S0046: 1, S0132: 1, H0619: 1, H0351: 1, S0222: 1, H0497: 1, H0632: 1, H0486: 1, H0156: 1, H0575: 1, H0052: 1, H0596: 1, H0057: 1, H0014: 1, H0355: 1, H0286: 1, H0622: 1, H0165: 1, H0674: 1, H0212: 1, H0038: 1, H0379: 1, H0059: 1, T0041: 1, S0448: 1, H0132: 1, S0150: 1, L0646: 1, L0774: 1, L0527: 1, L0657: 1, L0809: 1,		

HOCMF50	HOCMF50RB	1350	49 - 354	3525	Gly-2 to Lys-9, Arg-21 to Glu-32, Pro-58 to Lys-64, Thr-73 to Glu-83.	L0519: 1, L0788: 1, L0789: 1, L0666: 1, H0520: 1, H0519: 1, H0658: 1, H0660: 1, S0152: 1, S0013: 1, H0696: 1, S0044: 1, S0174: 1, S0146: 1, H0479: 1, L0744: 1, L0777: 1, L0758: 1, L0581: 1, L0608: 1, L0593: 1 and H0136: 1.		
HOCMF54	HOCMF54R	1351	37 - 285	3526	Lys-1 to Thr-6, Ala-26 to Gly-36, Ser-47 to Gln-55, Leu-72 to Cys-83.	L0794: 7, L0666: 4, L0750: 3, L0664: 2, L0665: 2, H0670: 2, H0660: 2, L0439: 2, L0751: 2, L0756: 2, H0650: 1, H0150: 1, L0769: 1, L0803: 1, L0378: 1, L0657: 1, H0684: 1 and H0555: 1.		
HOCMG37	HOCMG37R	1352	1 - 456	3527	Gly-1 to Asn-9, Glu-31 to Val-39.	H0657: 13, S0360: 12, S0026: 7, H0547: 6, H0171: 4, S0356: 4, H0551: 4, H0560: 4, H0509: 4, H0689: 4, H0543: 4, S0358: 3,		

H0318: 3, S0440: 3, H0529: 3, H0435: 3, H0665: 3, H0170: 2, H0265: 2, H0556: 2, H0222: 2, S0376: 2, L0717: 2, H0642: 2, H0574: 2, H0575: 2, H0596: 2, S0003: 2, H0615: 2, H0428: 2, H0617: 2, H0413: 2, H0494: 2, H0646: 2, L0369: 2, H0144: 2, H0520: 2, H0519: 2, H0690: 2, H0658: 2, H0660: 2, H0672: 2, L0362: 2, H0542: 2, H0423: 2, H0686: 1, H0650: 1, H0656: 1, S0212: 1, S0029: 1, H0483: 1, H0663: 1, H0664: 1, H0638: 1, S0420: 1, H0580: 1, S0278: 1, H0261: 1, H0438: 1, H0586: 1, T0060: 1, H0069: 1, S0010: 1, H0263: 1, H0327: 1, H0546: 1, H0014: 1, H0083: 1, H0510: 1, S6028: 1, H0266: 1, S0214: 1,
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HOCMI62	HOCMI62R	1353	49 - 348	3528				H0553: 1, H0068: 1, H0090: 1, H0040: 1, H0634: 1, T0067: 1, H0079: 1, H0561: 1, L0065: 1, H0130: 1, H0647: 1, S0422: 1, L0772: 1, L0648: 1, L0662: 1, L0768: 1, L0375: 1, L0657: 1, L0659: 1, L0518: 1, S0310: 1, L0438: 1, H0670: 1, H0648: 1, S0380: 1, H0521: 1, H0436: 1, L0439: 1, L0749: 1, L0756: 1, L0779: 1, L0731: 1, H0343: 1, L0596: 1, L0588: 1, L0590: 1, L0591: 1, L0603: 1, H0653: 1, S0196: 1, H0422: 1, S0424: 1, S0384: 1 and H0506: 1.		
HOCMI47	HOCMI47R	1354	1 - 510	3529		Lys-23 to Ser-29, Tyr-55 to His-62, Tyr-65 to Leu-71.				
HOCMK20	HOCMK20R	1355	14 - 400	3530		Glu-32 to Ser-38.				
HOCML06	HOCML06R	1356	3 - 707	3531		Gly-1 to Arg-9.				
HOCML66	HOCML66R	1357	2 - 289	3532			L0748: 2, S6028: 1, H0682: 1, H0660: 1,			

HOCMM52	HOCMM52R	1358	130 - 594	3533	Thr-19 to Cys-25, Lys-133 to Ala-138	S0378: 1 and H0506: 1.		
HOCMO50	HOCMO50R	1359	3 - 425	3534				
HOCMS75	HOCMS75R	1360	3 - 500	3535		H0295: 8, H0617: 7, L0665: 7, H0435: 7, H0592: 6, H0494: 6, L0439: 6, L0751: 6, S0360: 5, S0046: 4, H0587: 4, H0012: 4, H0264: 4, L0662: 4, S0406: 4, H0586: 3, H0620: 3, H0031: 3, H0551: 3, S0440: 3, S0002: 3, L0763: 3, L0648: 3, L0649: 3, L0774: 3, L0659: 3, H0520: 3, H0547: 3, H0689: 3, H0660: 3, S0328: 3, S0330: 3, L0748: 3, L0754: 3, L0750: 3, H0294: 2, H0650: 2, H0341: 2, S0356: 2, S0132: 2, H0370: 2, H0333: 2, H0643: 2, L0623: 2, H0706: 2, H0081: 2, H0039: 2, H0553: 2, H0181: 2, H0068: 2, H0135: 2, H0040: 2,		

H0646: 2, L0640: 2, L0637: 2, L0641: 2, L0764: 2, L0804: 2, L0806: 2, L0776: 2, L0637: 2, L0809: 2, L0664: 2, H0519: 2, H0682: 2, H0670: 2, H0672: 2, L0744: 2, L0740: 2, S0434: 2, H0677: 2, H0483: 1, H0305: 1, H0638: 1, S0442: 1, S0358: 1, S0376: 1, S0410: 1, H0411: 1, H0550: 1, H0455: 1, H0600: 1, H0101: 1, H0575: 1, H0590: 1, H0618: 1, H0052: 1, H0234: 1, H0597: 1, H0121: 1, L0041: 1, H0123: 1, H0246: 1, H0290: 1, H0292: 1, H0428: 1, H0622: 1, T0023: 1, H0030: 1, H0316: 1, H0059: 1, H0100: 1, S0306: 1, T0090: 1, H0649: 1, S0210: 1, S0426: 1, L0646: 1, L0765: 1, L0771: 1, L0626: 1, L0768: 1,
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HOCMS87	HOCMS87R	1361	145 - 636	3536	Pro-84 to Pro-91.	L0364: 1, L0766: 1, L0375: 1, L0651: 1, L0378: 1, L0653: 1, L0655: 1, L0558: 1, L0635: 1, L0518: 1, L0383: 1, L0792: 1, L0663: 1, S0006: 1, H0696: 1, S0044: 1, S3014: 1, L0743: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, H0216: 1, H0543: 1, S0424: 1 and H0506: 1. L0743: 9, H0551: 5, H0645: 4, H0050: 4, S0250: 4, S0192: 4, H0624: 3, T0039: 3, H0087: 3, H0547: 3, L0439: 3, H0294: 2, H0370: 2, T0040: 2, H0620: 2, H0024: 2, H0622: 2, H0424: 2, H0031: 2, H0063: 2, L0662: 2, L0776: 2, S0028: 2, L0757: 2, S0242: 2, S0116: 1, H0484: 1, H0483: 1, S0360: 1, H0619: 1, H0550: 1, H0586: 1, H0497: 1, H0486: 1.
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HOCMX29	HOCMX29R	1362	86 - 235	3537			H0599: 1, H0575: 1, H0122: 1, H0706: 1, H0421: 1, S0049: 1, H0086: 1, H0123: 1, H0081: 1, H0012: 1, H0687: 1, H0028: 1, H0604: 1, S0386: 1, L0772: 1, L0648: 1, L0803: 1, L0774: 1, L0375: 1, L0789: 1, L0532: 1, L0663: 1, T0068: 1, S0126: 1, H0684: 1, H0660: 1, S0152: 1, S0027: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, S0194: 1 and H0506: 1.
HOCMY53	HOCMY53R	1363	76 - 354	3538			
HOCMY61	HOCMY61R	1364	2 - 466	3539			
HOCMY79	HOCMY79R	1365	314 - 511	3540			
HOCOC38	HOCOC38R	1366	394 - 2	3541			
HOCOC41	HOCOC41R	1367	520 - 789	3542			
HOCOC94	HOCOC94R	1368	3 - 488	3543			
							L0777: 14, L0731: 10, L0740: 8, L0439: 7, L0754: 6, S0222: 5, H0144: 5, L0745: 5,



H0013: 4, L0770: 4, S0380: 4, L0748: 4, L0758: 4, H0171: 3, H0599: 3, S0010: 3, H0052: 3, S0003: 3, H0615: 3, L0598: 3, L0666: 3, L0665: 3, H0519: 3, H0658: 3, L0749: 3, H0255: 2, S0376: 2, S0444: 2, S0360: 2, H0632: 2, H0327: 2, S0214: 2, H0038: 2, H0040: 2, L0769: 2, L0638: 2, L0662: 2, L0794: 2, L0775: 2, L0776: 2, H0660: 2, S0330: 2, L0744: 2, L0750: 2, L0756: 2, L0757: 2, L0362: 2, L0361: 2, H0170: 1, H0685: 1, S0040: 1, S0342: 1, H0716: 1, S0001: 1, S0282: 1, H0662: 1, S0356: 1, S0358: 1, H0675: 1, S0408: 1, H0580: 1, S0300: 1, H0406: 1, S0278: 1, H0550: 1, H0441: 1, H0431: 1, H0600: 1,
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H0331: 1, H0574: 1, T0039: 1, H0156: 1, S0665: 1, S0346: 1, H0263: 1, H0596: 1, H0546: 1, H0150: 1, H0009: 1, H0569: 1, L0471: 1, H0012: 1, H0051: 1, S0051: 1, T0010: 1, H0266: 1, S0250: 1, S0022: 1, H0428: 1, H0119: 1, H0553: 1, H0628: 1, H0617: 1, H0316: 1, H0634: 1, H0412: 1, H0413: 1, H0623: 1, H0494: 1, S0450: 1, H0130: 1, S0142: 1, UNKWN: 1, L0771: 1, L0766: 1, L0803: 1, L0804: 1, L0774: 1, L0784: 1, L0805: 1, L0652: 1, L0653: 1, L0655: 1, L0606: 1, L0527: 1, L0783: 1, L0663: 1, H0547: 1, H0689: 1, H0670: 1, H0648: 1, H0539: 1, H0521: 1, H0696: 1, H0478: 1, S0432: 1, H0540: 1, S0028: 1,
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HOCOF35	HOCOF35R	1369	221 - 502	3544	Pro-6 to Arg-12, Gln-17 to Leu-22, His-25 to Asp-32, Gly-62 to Lys-69.	S0206: 1, L0746: 1, L0747: 1, S0031: 1, L0689: 1, S0436: 1, S0194: 1, S0276: 1, S0412: 1, H0506: 1 and H0352: 1.		
HOCOF50	HOCOF50R	1370	2 - 409	3545	Thr-16 to Phe-28, Cys-58 to Ser-69, Glu-91 to Glu-99, Lys-113 to Glu-119.			
HOCOO62	HOCOO62R	1371	9 - 539	3546	Gln-37 to Trp-44, Arg-47 to Phe-57, Phe-67 to Ala-83, Pro-94 to Gly-99, Lys-109 to Cys-116, Arg-130 to Ser-137.			
HOCOP52	HOCOP52R	1372	2 - 382	3547		H0521: 5, S0040: 3, H0039: 3, H0657: 2, H0341: 2, H0553: 2, S0210: 2, H0593: 2, H0445: 2, L0596: 2, S0212: 1, H0661: 1, S0418: 1, S0354: 1, S0358: 1, H0592: 1, T0039: 1, H0635: 1.		
HOCOQ13	HOCOQ13R	1373	46 - 492	3548	Glu-1 to Val-9.			

							H0427: 1, H0544: 1, H0546: 1, H0545: 1, H0046: 1, L0471: 1, H0083: 1, S0028: 1, S0338: 1, S0003: 1, H0068: 1, H0038: 1, H0063: 1, H0551: 1, H0100: 1, T0042: 1, H0494: 1, H0561: 1, H0646: 1, L0800: 1, L0649: 1, L0654: 1, L0656: 1, H0660: 1, H0518: 1, S0152: 1, S0146: 1, H0555: 1, S0037: 1, S0028: 1, L0605: 1, L0599: 1, L0603: 1, H0667: 1, H0542: 1, H0543: 1, S0424: 1 and H0506: 1.
					Lys-9 to Asp-16, Thr-27 to Trp-36.		
					Pro-38 to Gln-43.		
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L0770: 2, L0529: 2, L0439: 2, L0740: 2, L0751: 2, L0758: 2, S0242: 2, H0223: 1, H0685: 1, S0116: 1, S0282: 1, H0662: 1, S6022: 1, H0574: 1, H0486: 1, H0013: 1, H0098: 1, H0575: 1, H0581: 1, H0052: 1, L0471: 1, H0024: 1, H0510: 1, H0594: 1, H0328: 1, H0169: 1, H0598: 1, H0163: 1, H0646: 1, L0637: 1, L0768: 1, L0794: 1, L0804: 1, L0775: 1, L0653: 1, L0659: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0647: 1, L0666: 1, L0664: 1, S0374: 1, L0438: 1, H0519: 1, H0670: 1, H0660: 1, H0648: 1, S0378: 1, H0696: 1, S0432: 1, L0777: 1, L0755: 1, S0308: 1, L0591: 1, L0608: 1, S0192: 1, S0194: 1, H0543: 1,							
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HOCPG48	HOCPG48R	1379	39 - 185	3554			H0423: 1 and S0412: 1.		
HOCPH40	HOCPH40R	1380	2 - 217	3555	Leu-9 to Val-14, Glu-41 to Ala-49.		L0731: 7, S0358: 6, L0439: 6, L0769: 5, L0809: 4, L0747: 4, S0354: 3, H0580: 3, H0438: 3, H0581: 3, L0770: 3, L0766: 3, L0774: 3, L0775: 3, L0740: 3, L0749: 3, L0758: 3, L0596: 3, H0677: 3, H0392: 2, H0457: 2, L0471: 2, H0510: 2, H0169: 2, H0551: 2, T0042: 2, H0494: 2, S0438: 2, L0761: 2, L0657: 2, L0783: 2, L0647: 2, L0666: 2, L0565: 2, L0438: 2, H0521: 2, L0748: 2, L0750: 2, L0779: 2, L0752: 2, L0759: 2, L0588: 2, L0605: 2, L0592: 2, L0581: 2, L0615: 1, S0116: 1, H0638: 1, S0418: 1, S0444: 1, S0360: 1, S0222: 1, H0586: 1, H0427: 1, H0618: 1, H0390: 1,		

HOCPI44	HOCPI44R	1381	3 - 281	3556	Gly-18 to Asp-23, Gln-34 to Gly-40, Asp-81 to Lys-87.	H0318: 1, H0007: 1, H0052: 1, H0544: 1, H0024: 1, H0014: 1, H0083: 1, H0375: 1, S6028: 1, H0266: 1, H0398: 1, L0055: 1, H0135: 1, H0087: 1, S0344: 1, S0426: 1, H0529: 1, L0763: 1, L0639: 1, L0374: 1, L0764: 1, L0662: 1, L0768: 1, L0803: 1, L0378: 1, L0776: 1, L0659: 1, L0518: 1, L0663: 1, L0665: 1, S0374: 1, H0547: 1, H0519: 1, H0593: 1, H0690: 1, H0682: 1, H0660: 1, S0328: 1, H0539: 1, H0555: 1, L0743: 1, L0777: 1, H0445: 1, L0362: 1, S0242: 1 and H0543: 1.		
HOCPI28	HOCPI28R	1382	3 - 245	3557				
HOCPI53	HOCPI53R	1383	2 - 232	3558	Asp-43 to Gly-48.			
HOCPL59	HOCPL59R	1384	285 - 530	3559				
HOCPI39	HOCPI39R	1385	2 - 136	3560				

HOCPP65	HOCPP65R	1386	3 - 275	3561	Ala-2 to Ala-9.	L0747: 10, L0805: 6, S0358: 4, L0775: 4, L0655: 4, L0749: 4, H0656: 3, S0440: 3, L0803: 3, L0776: 3, L0789: 3, H0650: 2, H0662: 2, L0471: 2, H0620: 2, H0169: 2, H0616: 2, L0770: 2, L0769: 2, L0761: 2, L0800: 2, L0794: 2, L0804: 2, L0806: 2, L0657: 2, L0809: 2, L0665: 2, H0547: 2, S0126: 2, H0660: 2, H0648: 2, H0521: 2, S0406: 2, L0748: 2, L0750: 2, L0758: 2, L0581: 2, T0002: 1, H0686: 1, H0657: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0444: 1, H0574: 1, H0559: 1, H0486: 1, L0586: 1, T0114: 1, H0250: 1, H0318: 1, H0014: 1, H0051: 1, H0266: 1, H0292: 1, H0428: 1, H0031: 1, H0673: 1, H0163: 1,		
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HOCPP80	HOCPP80R	1387	3 - 587	3562	Glu-16 to Lys-21, Asn-62 to Arg-68, Asp-94 to Thr-102, Gly-161 to Leu-170.	H0591: 1, H0494: 1, L0640: 1, L0763: 1, L0772: 1, L0773: 1, L0521: 1, L0766: 1, L0774: 1, L0375: 1, L0384: 1, L0793: 1, H0144: 1, H0703: 1, S0374: 1, H0593: 1, H0690: 1, H0659: 1, H0658: 1, S0328: 1, S0152: 1, L0744: 1, L0779: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, S0026: 1, H0136: 1, H0542: 1 and H0422: 1.
HOCPPQ24	HOCPPQ24R	1388	26 - 358	3563	Ser-9 to Glu-16, Phe-49 to Tyr-58, Asn-102 to Gly-110.	L0754: 4, H0290: 2, L0761: 2, L0794: 2, L0766: 2, L0793: 2, L0731: 2, L0758: 2, L0759: 2, L0594: 2, H0713: 1, H0402: 1, S0418: 1, S0354: 1, H0580: 1, L0717: 1, H0550: 1, H0333: 1.
HOCPPQ59	HOCPPQ59R	1389	2 - 394	3564		

HOCPr66	HOCPr66R	1390	2 - 427	3565	Asp-24 to Leu-31, Ile-123 to Gln-128.	H0643: 1, H0574: 1, S0280: 1, H0618: 1, H0052: 1, H0546: 1, H0545: 1, H0014: 1, H0033: 1, H0100: 1, L5566: 1, L0773: 1, L0521: 1, L0803: 1, L0804: 1, L0807: 1, L0788: 1, H0670: 1, H0660: 1, H0521: 1, S0404: 1, S0406: 1, H0436: 1, L0779: 1, H0543: 1 and H0352: 1.		
HOCPr73	HOCPr75R	1391	2 - 487	3566				
HOCPr01	HOCPr01R	1392	3 - 536	3567	Ser-11 to Trp-18, Glu-43 to Leu-50, Phe-99 to Arg-120, Ser-136 to Tyr-144, Glu-154 to Cys-163.			
HOCPr29	HOCPr29R	1393	1 - 588	3568	Gln-14 to Lys-19, Glu-79 to Gly-87.	L0748: 9, H0556: 8, L0769: 5, L0766: 4, L0776: 4, H0547: 4, H0521: 4, L0750: 4, L0752: 4, L0758: 4, S0434: 4, H0542: 4, H0657: 3, S0418: 3, H0586: 3, H0587: 3, H0013: 3, H0052: 3,		

H0083: 3, H0038: 3, H0634: 3, H0494: 3, S0440: 3, L0774: 3, L0775: 3, L0639: 3, H0522: 3, L0744: 3, L0749: 3, L0755: 3, L0759: 3, H0543: 3, S0358: 2, S0476: 2, H0156: 2, H0194: 2, L0471: 2, H0014: 2, H0201: 2, S0003: 2, T0023: 2, H0135: 2, H0551: 2, S0142: 2, L0372: 2, L0662: 2, L0767: 2, L0381: 2, L0383: 2, L0666: 2, L0665: 2, H0658: 2, H0660: 2, S0044: 2, S3014: 2, L0751: 2, L0754: 2, L0596: 2, L0588: 2, L0591: 2, L0592: 2, L0595: 2, L0601: 2, H0423: 2, S0040: 1, S0134: 1, S0298: 1, H0661: 1, H0664: 1, H0125: 1, S0420: 1, S0356: 1, S0354: 1, S0444: 1, S0360: 1, H0619: 1, H0393: 1, H0549: 1,
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	H0550: 1, S0222: 1, S6014: 1, H0431: 1, H0592: 1, H0574: 1, T0039: 1, T0114: 1, H0075: 1, H0427: 1, H0590: 1, H0004: 1, H0318: 1, H0581: 1, H0251: 1, H0596: 1, T0115: 1, H0009: 1, H0081: 1, H0050: 1, H0024: 1, T0010: 1, H0687: 1, H0288: 1, H0290: 1, H0039: 1, H0622: 1, L0055: 1, H0032: 1, H0090: 1, H0591: 1, H0040: 1, H0063: 1, H0413: 1, T0069: 1, S0438: 1, H0538: 1, S0210: 1, S0426: 1, H0529: 1, L0520: 1, L0762: 1, L0763: 1, L0770: 1, L0374: 1, L0764: 1, L0768: 1, L0386: 1, L0803: 1, L0524: 1, L0806: 1, L0379: 1, L0527: 1, L0657: 1, L0382: 1, L0809: 1, L0788: 1, L0663: 1, S0052: 1, S0374: 1,
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HOCPR33	HOCPR33R	1394	168 - 335	3569				H0691: 1, H0682: 1, H0435: 1, H0659: 1, S0328: 1, S0330: 1, S0152: 1, H0436: 1, L0611: 1, S0027: 1, S0028: 1, L0747: 1, L0779: 1, L0780: 1, L0731: 1, L0608: 1, S0026: 1, H0653: 1, S0192: 1, S0194: 1, H0422: 1 and S0384: 1.		
HOCPR53	HOCPR53R	1395	62 - 256	3570			Glu-22 to Glu-30, Lys-42 to Glu-51.			
HOCPR55	HOCPR55R	1396	3 - 440	3571			Pro-7 to Ser-36, Cys-49 to Pro-57, Pro-85 to Ala-91, Gly-97 to Pro-109.	L0766: 2, H0660: 2, L0748: 2, L0740: 2, H0328: 1, L0769: 1, L0651: 1, L0653: 1, H0593: 1 and S0126: 1.		
HOCPR77	HOCPR77R	1397	1 - 279	3572						
HOCPR82	HOCPR82R	1398	1 - 102	3573						
HOCPS35	HOCPS35R	1399	3 - 203	3574			Tyr-1 to Gly-39, Ala-41 to Tyr-67.			
HOCPU03	HOCPU03R	1400	1 - 225	3575						
HOCPU30	HOCPU30R	1401	333 - 560	3576						
HOCPU68	HOCPU68R	1402	3 - 269	3577			Ser-49 to Asp-56, Arg-64 to Ile-71, Pro-80 to Ile-89.			
HOCPU29	HOCPU29R	1403	339 - 599	3578			His-10 to Asp-20,	H0620: 2, S0022: 2.		

					Asn-27 to Gly-33.	L0438: 2, T0002: 1, H0393: 1, H0370: 1, H0050: 1, H0373: 1, H0051: 1, H0028: 1, S0036: 1, H0551: 1, H0059: 1, S0150: 1, L0662: 1, S0126: 1, H0435: 1, H0660: 1, S0044: 1 and H0694: 1.		
H0CPV67	H0CPV67R	1404	1 - 390	3579		L0803: 7, L0439: 5, L0809: 4, L0749: 4, L0776: 3, H0520: 3, L0748: 3, L0750: 3, H0543: 3, S0440: 2, L0794: 2, L0804: 2, L0438: 2, H0547: 2, H0660: 2, S0406: 2, L0743: 2, L0777: 2, L0759: 2, H0556: 1, H0656: 1, S0358: 1, S0360: 1, H0637: 1, H0580: 1, H0741: 1, H0733: 1, H0619: 1, H0415: 1, H0600: 1, H0587: 1, H0486: 1, H0013: 1, H0427: 1, S0474: 1, H0581: 1, H0263: 1, H0457: 1, H0615: 1, H0428: 1, H0644: 1, H0032: 1,		

							S0036: 1, H0591: 1, H0634: 1, H0264: 1, S0438: 1, S0422: 1, S0002: 1, L0520: 1, L0766: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0655: 1, L0790: 1, L0666: 1, L0663: 1, H0723: 1, H0593: 1, H0682: 1, H0670: 1, H0521: 1, S0013: 1, H0631: 1, S0206: 1, L0756: 1, L0731: 1, L0608: 1, S0194: 1 and S0424: 1.		
HOCVP72	HOCVP72R	1405	3 - 209	3580					
HOCVP56	HOCVP56R	1406	2 - 502	3581	Ile-53 to Trp-63, Ala-80 to Gly-89, Arg-134 to Gln-139.		L0752: 19, L0747: 12, L0776: 6, L0750: 5, L0608: 5, L0774: 4, L0805: 4, L0438: 4, L0740: 4, S0210: 3, L0600: 3, S0358: 2, S0222: 2, H0068: 2, H0040: 2, H0413: 2, L0770: 2, L0769: 2, L0772: 2, L0794: 2, L0783: 2, L0809: 2, S0328: 2, L0439: 2, L0745: 2, L0755: 2, L0758: 2, L0590: 2.		

H0170: 1, H0341: 1, H0483: 1, S0420: 1, S0410: 1, S0300: 1, H0411: 1, H0549: 1, L0622: 1, H0013: 1, H0156: 1, S0010: 1, H0052: 1, H0545: 1, N0006: 1, L0471: 1, H0012: 1, S0336: 1, H0428: 1, T0006: 1, H0606: 1, H0674: 1, L0455: 1, S0036: 1, H0038: 1, H0063: 1, H0494: 1, H0560: 1, L0520: 1, L0762: 1, L0521: 1, L0662: 1, L0767: 1, L0803: 1, L0653: 1, L0659: 1, L0790: 1, L0791: 1, L0666: 1, H0144: 1, S0374: 1, H0689: 1, H0690: 1, H0659: 1, H0660: 1, H0648: 1, S0378: 1, H0134: 1, H0214: 1, L0749: 1, L0731: 1, L0361: 1, S0106: 1, S0011: 1, H0653: 1, S0192: 1, S0242: 1, S0194: 1 and H0422: 1.
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HOCPW68	HOCPW68R	1407	1 - 297	3582	Pro-42 to Ser-59, Asp-159 to Asn-168, Tyr-196 to Gly-205.	H0046: 9, L0777: 3, S0376: 2, H0050: 2, S0344: 2, S0126: 2, H0670: 2, S0152: 2, H0521: 2, H0542: 2, H0543: 2, H0341: 1, S0354: 1, S0358: 1, S0408: 1, H0619: 1, H0393: 1, H0592: 1, H0590: 1, S0474: 1, H0546: 1, H0551: 1, H0494: 1, S0440: 1, L0663: 1, H0660: 1, H0672: 1, H0631: 1, S0028: 1, L0757: 1, S0434: 1, L0581: 1 and L0593: 1.		
HOCPW81	HOCPW81R	1408	2 - 694	3583				
HOCPX01	HOCPX01R	1409	99 - 296	3584	Glu-24 to Ser-29.	H0617: 5, L0769: 4, L0776: 4, L0751: 4, L0747: 4, L0774: 3, H0685: 2, H0657: 2, H0483: 2, H0486: 2, H0052: 2, H0674: 2, H0494: 2, L0775: 2, L0518: 2, H0682: 2, L0603: 2, H0170: 1, S0024: 1, S0116: 1, H0664: 1, H0306: 1,		
HOCPY70	HOCPY70R	1410	266 - 442	3585				

							S0420: 1, S0376: 1, S0360: 1, S0007: 1, S0300: 1, S0222: 1, S6014: 1, H0250: 1, L0021: 1, L0022: 1, S0049: 1, H0309: 1, H0150: 1, H0009: 1, S0051: 1, H0188: 1, T0006: 1, H0604: 1, H0673: 1, H0169: 1, H0087: 1, L0065: 1, L0763: 1, L0638: 1, L0773: 1, L0662: 1, L0768: 1, L0766: 1, L0649: 1, L0651: 1, L0657: 1, L0540: 1, L0783: 1, L0809: 1, L0530: 1, L0787: 1, L0789: 1, L0665: 1, S0374: 1, S0126: 1, H0684: 1, H0660: 1, H0539: 1, S0380: 1, H0576: 1, L0741: 1, L0742: 1, L0749: 1, L0750: 1, L0779: 1, L0759: 1, S0031: 1 and L0590: 1.		
HOCBZ76	HOCBZ76R	1411	2 - 460	3586	Pro-93 to Arg-99, Ser-143 to Val-149.				
HOCOA25	HOCOA25R	1412	352 - 543	3587	Ser-25 to Ser-30.	S0358: 45, S0360: 30,			

S0374: 22, S0444: 21, L0662: 21, S0408: 19, L0666: 15, S0380: 14, L0664: 11, L0665: 11, S0026: 11, H0059: 10, S0328: 10, S0330: 10, H0251: 9, L0809: 8, H0670: 8, S0378: 8, H0661: 7, S0354: 7, S0440: 7, L0775: 7, L0659: 7, L0663: 7, H0672: 7, S0406: 7, S0442: 6, S0414: 6, L0657: 6, L0774: 5, H0659: 5, L0754: 5, S0434: 5, S0376: 4, L0483: 4, L0532: 4, H0547: 4, H0660: 4, L0602: 4, L0592: 4, S0460: 4, S0007: 3, H0529: 3, L0520: 3, L0803: 3, H0648: 3, S0404: 3, L0748: 3, L0747: 3, L0750: 3, L0759: 3, H0445: 3, L0608: 3, S0424: 3, H0663: 2, H0664: 2, H0580: 2, L0444: 2, H0156: 2, H0014: 2, H0615: 2, H0688: 2,							
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H0039: 2, H0644: 2, H0617: 2, H0032: 2, H0673: 2, L0763: 2, L0646: 2, L0804: 2, L0776: 2, H0627: 2, L0777: 2, L0758: 2, L0362: 2, H0506: 2, L0615: 1, H0685: 1, H0656: 1, L0778: 1, L0785: 1, H0341: 1, H0669: 1, H0662: 1, H0402: 1, S0356: 1, T0008: 1, S0476: 1, H0351: 1, H0299: 1, H0486: 1, H0013: 1, L0021: 1, T0082: 1, H0581: 1, H0421: 1, H0235: 1, H0596: 1, L0040: 1, H0178: 1, H0563: 1, H0012: 1, H0328: 1, H0031: 1, H0068: 1, H0135: 1, T0067: 1, H0264: 1, H0488: 1, H0100: 1, H0494: 1, S0352: 1, S0448: 1, S0450: 1, H0509: 1, S0472: 1, H0647: 1, H0695: 1, L0764: 1, L0765: 1, L0767: 1, L0768: 1,				
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						L0364: 1, L0766: 1, L5568: 1, L0552: 1, L0376: 1, L0653: 1, L0655: 1, L0529: 1, H0144: 1, H0520: 1, H0690: 1, H0682: 1, H0684: 1, H0435: 1, H0658: 1, S0392: 1, H0478: 1, H0626: 1, H0631: 1, L0744: 1, L0751: 1, L0749: 1, L0779: 1, L0755: 1, S0308: 1, H0707: 1, L0596: 1, L0593: 1 and S0384: 1.			
HOCQA26	HOCQA26R	1413	1 - 384	3588					
HOCQA37	HOCQA37R	1414	13 - 276	3589					
HOCQA86	HOCQA86R	1415	3 - 435	3590					
HOCQB18	HOCQB18R	1416	3 - 473	3591	Met-1 to Leu-6, Gly-19 to Lys-26, Ala-32 to Lys-38, Ala-89 to Leu-94, Gly-134 to Val-141.				
HOCQB48	HOCQB48R	1417	1 - 588	3592	Met-36 to Pro-42, Pro-49 to Thr-55, Leu-104 to Met-110, Trp-112 to Asn-117, Glu-122 to Tyr-134, Gln-142 to Ser-148, Leu-174 to Tyr-180.				

HOCQC57	HOCQC57R	1418	1 - 237	3593	<p>L0766: 6, L0752: 5,  L0794: 4, H0039: 3,  H0622: 3, S0440: 3,  L0770: 3, L0809: 3,  H0547: 3, L0747: 3,  S0356: 2, H0587: 2,  H0427: 2, H0156: 2,  H0015: 2, H0031: 2,  L0771: 2, L0662: 2,  L0768: 2, L0804: 2,  L0659: 2, L0666: 2,  L0664: 2, L0438: 2,  H0660: 2, L0740: 2,  L0754: 2, L0745: 2,  L0749: 2, L0731: 2,  L0593: 2, H0624: 1,  H0657: 1, H0656: 1,  H0370: 1, H0438: 1,  T0040: 1, L0586: 1,  T0114: 1, H0036: 1,  S0010: 1, H0052: 1,  H0545: 1, H0050: 1,  H0014: 1, H0373: 1,  L0163: 1, H0051: 1,  H0071: 1, T0010: 1,  H0030: 1, H0316: 1,  H0598: 1, H0090: 1,  S0038: 1, H0561: 1,  H0509: 1, H0130: 1,  H0633: 1, S0002: 1,</p>
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HOCQC71	HOCQC71R	1419	216 - 521	3594	Thr-21 to Gly-28, Lys-36 to Gly-43, Ala-73 to His-85.	L0500: 1, L0761: 1, L0764: 1, L0773: 1, L0649: 1, L0375: 1, L0805: 1, L0653: 1, L0544: 1, L0545: 1, L0792: 1, L0663: 1, L0665: 1, H0670: 1, H0666: 1, H0521: 1, L0743: 1, L0439: 1, L0777: 1, L0755: 1, L0758: 1, L0596: 1, L0589: 1, L0592: 1, H0216: 1, H0542: 1, H0423: 1 and H0352: 1.		
HOCQD10	HOCQD10R	1420	2 - 529	3595		H0556: 2, H0519: 2, S0116: 1, H0370: 1, H0063: 1, L0800: 1, L0803: 1, L0383: 1, L0789: 1, H0593: 1, H0659: 1, H0660: 1, L0777: 1 and H0665: 1.		
HOCQD19	HOCQD19R	1421	3 - 335	3596	Gly-70 to Gly-79.			
HOCQD38	HOCQD38R	1422	290 - 550	3597		L0748: 49, L0766: 22, H0457: 12, L0439: 12, H0581: 11, L0659: 11, L0754: 11, L0745: 10, L0662: 9, L0665: 9.		

H0710: 9, H0556: 8, L0666: 8, H0521: 8, L0751: 8, L0758: 8, L0592: 8, H0486: 7, H0318: 7, L0774: 7, L0664: 7, S0360: 6, H0510: 6, L0731: 6, H0423: 6, H0638: 5, H0580: 5, H0427: 5, H0050: 5, H0271: 5, L0800: 5, H0670: 5, H0552: 5, L0581: 5, H0506: 5, H0402: 4, S0358: 4, H0179: 4, L0768: 4, L0803: 4, L0438: 4, H0547: 4, H0658: 4, S0328: 4, H0555: 4, H0436: 4, L0747: 4, L0750: 4, L0777: 4, L0759: 4, L0593: 4, S0134: 3, H0657: 3, H0663: 3, H0305: 3, S0420: 3, H0619: 3, H0635: 3, H0098: 3, H0575: 3, S0003: 3, H0264: 3, H0413: 3, H0623: 3, H0494: 3, H0641: 3, L0763: 3, L0667: 3, L0794: 3, L0775: 3,
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L0651: 3, L0806: 3, L0653: 3, L0776: 3, L0655: 3, H0519: 3, H0690: 3, S0330: 3, L0602: 3, S0404: 3, L0779: 3, L0752: 3, L0755: 3, H0542: 3, S0114: 2, S0282: 2, H0661: 2, S0356: 2, S0376: 2, S0132: 2, H0411: 2, H0431: 2, H0586: 2, H0013: 2, H0069: 2, S0280: 2, L0021: 2, H0599: 2, H0046: 2, H0014: 2, H0051: 2, H0266: 2, H0416: 2, H0687: 2, H0316: 2, H0634: 2, H0551: 2, T0042: 2, S0440: 2, H0646: 2, S0002: 2, H0529: 2, L0769: 2, L0638: 2, L0761: 2, L0372: 2, L0646: 2, L0641: 2, L0648: 2, L0804: 2, L0784: 2, L0606: 2, L0527: 2, L0663: 2, S0374: 2, L0565: 2, H0711: 2, S0380: 2, H0696: 2, S3014: 2,
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L0744: 2, L0740: 2, L0746: 2, L0757: 2, H0445: 2, L0591: 2, H0543: 2, H0422: 2, H0220: 1, H0222: 1, H0685: 1, S0430: 1, H0650: 1, L0808: 1, S0116: 1, S0212: 1, S0001: 1, H0662: 1, H0459: 1, S0418: 1, S0408: 1, H0393: 1, L0717: 1, H0369: 1, H0261: 1, H0392: 1, H0409: 1, H0574: 1, H0632: 1, L0623: 1, T0039: 1, T0109: 1, H0250: 1, H0036: 1, S0474: 1, T0071: 1, H0421: 1, S0049: 1, H0052: 1, H0309: 1, H0204: 1, H0597: 1, H0544: 1, H0546: 1, H0024: 1, H0200: 1, H0071: 1, T0010: 1, H0083: 1, H0355: 1, S0318: 1, S0250: 1, H0039: 1, L0483: 1, H0031: 1, H0553: 1, H0644: 1, H0182: 1, H0032: 1, H0388: 1,							
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HOCQD42	HOCQD42R	1423	1 - 315	3598	Ala-1 to Gly-8, Leu-26 to Ser-40, Pro-57 to Leu-95.	H0040: 1, H0380: 1, H0280: 1, H0560: 1, H0561: 1, L0065: 1, H0652: 1, S0426: 1, L0369: 1, L0639: 1, L0637: 1, L0772: 1, L0642: 1, L0765: 1, L0378: 1, L0805: 1, L0607: 1, L0629: 1, L0384: 1, L0647: 1, L0789: 1, L0790: 1, S0052: 1, S0216: 1, H0144: 1, H0593: 1, S0126: 1, H0689: 1, H0682: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0672: 1, H0518: 1, S0152: 1, S0406: 1, H0187: 1, H0576: 1, S0392: 1, H0478: 1, H0345: 1, S0027: 1, L0756: 1, S0031: 1, H0444: 1, H0707: 1, S0434: 1, L0599: 1, S0011: 1, H0668: 1, H0667: 1, S0196: 1 and L0697: 1.
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HOCQD45	HOCQD45R	1424	38 - 475	3599	Arg-11 to Arg-20, Glu-61 to Ser-66, Pro-114 to Ala-125.			
HOCQE35	HOCQE35R	1425	3 - 410	3600				
HOCQG94	HOCQG94R	1426	3 - 317	3601				
HOCQH81	HOCQH81R	1427	144 - 335	3602				
HOCQI31	HOCQI31R	1428	1 - 324	3603	Lys-21 to His-26, Arg-47 to Val-55, Ser-65 to Gly-70, Ala-76 to Gly-81.	S0126: 23, H0038: 16, S0372: 15, H0550: 12, H0031: 12, H0545: 10, L0659: 10, S0360: 9, L0662: 9, L0757: 9, L0758: 9, H0551: 8, S0322: 8, H0431: 7, L0666: 7, L0750: 7, H0486: 6, H0546: 6, S0440: 6, L0776: 6, H0549: 5, H0620: 5, L0664: 5, H0593: 5, H0672: 5, H0539: 5, S0380: 5, H0555: 5, L0747: 5, S0358: 4, S0007: 4, H0409: 4, S0010: 4, H0039: 4, H0622: 4, H0616: 4, L0769: 4, L0641: 4, L0655: 4, H0696: 4, L0731: 4, S0040: 3, S0212: 3, S0418: 3, S0045: 3, S0280: 3, H0012: 3, H0090: 3,		

L0637: 3, L0771: 3, L0775: 3, L0651: 3, L0653: 3, H0690: 3, H0660: 3, S0328: 3, S0044: 3, H0295: 2, T0049: 2, H0662: 2, S0356: 2, S0354: 2, S0376: 2, L0717: 2, H0441: 2, H0333: 2, H0574: 2, H0257: 2, H0485: 2, H0575: 2, H0251: 2, H0544: 2, L0471: 2, H0014: 2, S0051: 2, H0266: 2, H0687: 2, S0003: 2, H0328: 2, H0615: 2, T0067: 2, H0412: 2, H0059: 2, S0016: 2, H0647: 2, S0210: 2, L0598: 2, L0520: 2, L0638: 2, L0796: 2, L0772: 2, L0764: 2, L0519: 2, L0790: 2, H0519: 2, H0689: 2, H0710: 2, S0406: 2, S3014: 2, S0028: 2, S0206: 2, L0740: 2, S0031: 2, L0604: 2, L0601: 2, S0192: 2, S0342: 1, L0785: 1,
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S0116: 1, S0298: 1, H0663: 1, S0420: 1, S0410: 1, S0468: 1, H0369: 1, H0453: 1, H0370: 1, H0392: 1, H0602: 1, H0587: 1, T0039: 1, H0013: 1, H0004: 1, H0052: 1, H0309: 1, H0046: 1, H0041: 1, H0081: 1, H0011: 1, H0049: 1, T0079: 1, H0375: 1, S0250: 1, S0214: 1, H0252: 1, H0428: 1, T0006: 1, H0032: 1, H0708: 1, H0316: 1, H0598: 1, H0400: 1, H0100: 1, H0494: 1, L0475: 1, S0014: 1, S0015: 1, H0625: 1, S0382: 1, H0646: 1, L0762: 1, L0763: 1, L0630: 1, L0646: 1, L0768: 1, L0649: 1, L0806: 1, L0656: 1, L0809: 1, L0647: 1, L0663: 1, L0665: 1, S0374: 1, H0691: 1, H0547: 1, H0682: 1, H0521: 1, S0027: 1,				
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HOCQJ35	HOCQJ35R	1429	61 - 546	3604	Leu-16 to Pro-22, Val-30 to Asp-36.	L0748: 1, L0756: 1, L0777: 1, L0752: 1, L0755: 1, H0343: 1, H0707: 1, L0605: 1, H0668: 1, S0196: 1 and H0506: 1. H0046: 12, L0771: 7, L0774: 3, L0651: 3, L0806: 3, L0666: 3, L0565: 3, L0748: 3, S0444: 2, S0408: 2, H0393: 2, L0372: 2, L0662: 2, L0766: 2, L0659: 2, L0664: 2, L0744: 2, L0731: 2, H0294: 1, S0442: 1, S0278: 1, H0549: 1, L0021: 1, H0085: 1, H0234: 1, H0596: 1, H0597: 1, H0546: 1, H0024: 1, S0003: 1, H0252: 1, H0383: 1, H0674: 1, H0068: 1, H0487: 1, H0413: 1, T0069: 1, H0100: 1, H0494: 1, H0625: 1, S0352: 1, L0761: 1, L0772: 1, L0646: 1, L0800: 1, L0764: 1, L0773: 1, L0794: 1,		
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							L0649: 1, L0803: 1, L0805: 1, L0653: 1, L0515: 1, L0367: 1, L0665: 1, S0374: 1, H0684: 1, H0660: 1, S0328: 1, S0044: 1, S0404: 1, L0740: 1, L0747: 1, L0757: 1, L0758: 1, S0260: 1 and S0276: 1.			
HOCQM24	HOCQM24R	1430	3 - 230	3605			Gly-2 to Gly-12, Gly-14 to Asn-28, Met-32 to Gly-49, Lys-54 to Phe-76.			
HODAF78	HODAF78R	1431	2 - 76	3606						
HODBT55	HODBT55R	1432	234 - 395	3607			Ala-1 to Ser-8.		H0328: 1 and H0435: 1.	
HODCT68	HODCT68R	1433	266 - 484	3608			Gln-1 to Pro-16.		L0493: 4, L0794: 3, H0497: 2, H0038: 2, L0766: 2, L0809: 2, L0779: 2, L0777: 2, L0759: 2, L0601: 2, H0170: 1, S0114: 1, H0341: 1, H0125: 1, S0046: 1, H0592: 1, H0587: 1, H0559: 1, H0156: 1, H0328: 1, H0616: 1, H0386: 1, H0538: 1, H0529: 1, L0769: 1, L0764: 1,	



HODCZ52	HODCZ52R	1434	2 - 139	3609	<p>L0775: 1, L0666: 1, H0659: 1, H0518: 1, L0741: 1, L0439: 1, L0747: 1, L0593: 1, L0594: 1, H0665: 1 and H0667: 1.</p> <p>AR089: 19, AR104: 18, AR060: 12, AR096: 7, AR055: 4, AR061: 3</p> <p>L0751: 29, H0549: 17, H0550: 17, L0666: 9, L0747: 8, H0689: 7, H0690: 7, H0682: 7, H0615: 6, H0670: 6, H0328: 5, H0150: 4, H0660: 4, S0330: 4, S0044: 4, L0362: 4, H0597: 3, H0688: 3, L0764: 3, L0657: 3, L0809: 3, L0753: 3, L0758: 3, L0759: 3, H0431: 2, H0046: 2, T0067: 2, H0059: 2, H0647: 2, L0774: 2, L0805: 2, L0783: 2, L0438: 2, H0593: 2, H0648: 2, H0672: 2, S0328: 2, S0404: 2, L0744: 2, L0779: 2,</p>
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HODDI57	HODDI57R	1435	3 - 194	3610	Gly-7 to Glu-41.	<p>S0436: 2, H0662: 1, S0442: 1, S0444: 1, S0408: 1, S0007: 1, H0461: 1, H0085: 1, H0009: 1, S0024: 1, H0188: 1, H0039: 1, H0604: 1, H0424: 1, H0169: 1, H0674: 1, L0520: 1, L5569: 1, L0803: 1, L0804: 1, L0775: 1, L0658: 1, L0634: 1, L0542: 1, L0528: 1, L2269: 1, L0663: 1, L0665: 1, H0684: 1, H0659: 1, H0658: 1, S0380: 1, S0406: 1, H0555: 1 and L0780: 1.</p>		
						<p>L0794: 4, L0803: 4, H0328: 3, L0779: 3, L0515: 2, L0809: 2, H0144: 2, L0754: 2, L0756: 2, L0759: 2, H0171: 1, S0282: 1, H0346: 1, S0222: 1, H0441: 1, H0486: 1, H0069: 1, H0052: 1, H0544: 1, H0266: 1, L0598: 1, L0638: 1, L0766: 1, L0650: 1,</p>		

HODEJ47	HODEJ47R	1436	11 - 295	3611	Leu-7 to Thr-16.	L0774: 1, L0805: 1, L0776: 1, L0657: 1, L0559: 1, L0659: 1, L0543: 1, L0438: 1, H0682: 1, S0328: 1, L0745: 1, L0750: 1, L0777: 1, L0752: 1, L0758: 1, H0343: 1 and H0655: 1.
						L0754: 20, L0759: 6, L0794: 4, H0615: 3, L0438: 3, S0126: 3, S0360: 2, H0411: 2, H0050: 2, H0163: 2, S0422: 2, L0665: 2, L0748: 2, L0747: 2, L0749: 2, L0780: 2, L0755: 2, H0595: 2, L0361: 2, H0170: 1, H0686: 1, H0638: 1, S0418: 1, S0358: 1, S0376: 1, H0586: 1, H0587: 1, H0009: 1, H0024: 1, H0328: 1, H0428: 1, H0625: 1, S0210: 1, L0598: 1, L0667: 1, L0764: 1, L0662: 1, L0766: 1, L0649: 1, L0650: 1, L0805: 1, L0655: 1.

						L0789: 1, L0663: 1, H0144: 1, S0330: 1, S0028: 1, L0751: 1, L0750: 1, L0731: 1, L0758: 1 and L0605: 1.			
HODEQ42	HODEQ42R	1437	1 - 54	3612					
HODEP78	HODEP78R	1438	187 - 432	3613					
						L0803: 7, L0439: 4, L0663: 3, L0749: 3, H0615: 2, L0769: 2, L0794: 2, L0774: 2, L0748: 2, L0777: 2, L0752: 2, L0142: 1, H0646: 1, L0767: 1, L0804: 1, L0784: 1, L0805: 1, L0789: 1, L0666: 1, L0438: 1, H0670: 1 and L0589: 1. H0615: 1 and S0031: 1.			
HODEQ42	HODEQ42R	1439	349 - 444	3614	Asn-1 to Ser-6, Thr-22 to Asn-32.				
HODER57	HODER57R	1440	92 - 289	3615					
HODES60	HODES60R	1441	2 - 421	3616		L0662: 2, H0615: 1, L0761: 1, L0791: 1, H0519: 1, L0752: 1 and L0758: 1.			
HODEU47	HODEU47R	1442	153 - 347	3617	Ser-1 to Ser-9, Asp-15 to Ala-21.	H0615: 2			
HODEV69	HODEV69R	1443	370 - 546	3618					
HODEW54	HODEW54R	1444	374 - 568	3619		H0328: 1 and H0615: 1.			

HODEW79	HODEW79R	1445	309 - 566	3620				
HODEX45	HODEX45R	1446	220 - 423	3621			H0615: 2 and L0532: 1.	
HODEX69	HODEX69R	1447	58 - 231	3622			H0615: 4 and L0659: 1.	
HODEX79	HODEX79R	1448	1 - 432	3623				
HODFC44	HODFC44RP 00	1449	1 - 207	3624	Ala-9 to Asp-21, Thr-31 to Arg-37.		L0747: 16, L0754: 10, L0751: 7, L0757: 7, H0657: 6, L0748: 6, L0771: 5, H0659: 5, L0740: 5, L0755: 5, H0594: 4, L0744: 4, H0341: 3, S0358: 3, S0278: 3, H0333: 3, H0615: 3, S0366: 3, L0520: 3, L0775: 3, L0517: 3, S0374: 3, S0328: 3, L0731: 3, H0136: 3, T0002: 2, S0218: 2, S0116: 2, S0354: 2, S0376: 2, H0637: 2, S0045: 2, H0370: 2, L0622: 2, H0156: 2, H0599: 2, H0545: 2, H0266: 2, H0039: 2, H0617: 2, H0132: 2, L0769: 2, L0665: 2, H0672: 2, H0539: 2, H0134: 2, L0756: 2, L0752: 2,	

L0758: 2, H0624: 1, H0170: 1, H0265: 1, S6024: 1, H0656: 1, H0255: 1, H0661: 1, H0125: 1, H0192: 1, S0418: 1, S0420: 1, S0360: 1, H0580: 1, H0393: 1, S0300: 1, H0411: 1, H0369: 1, H0261: 1, S0222: 1, L0623: 1, S0280: 1, H0618: 1, H0318: 1, H0581: 1, H0421: 1, L0738: 1, H0086: 1, L0471: 1, H0024: 1, H0082: 1, L0043: 1, S0214: 1, H0031: 1, H0673: 1, H0068: 1, H0038: 1, H0634: 1, H0087: 1, T0067: 1, H0412: 1, H0100: 1, H0512: 1, S0144: 1, S0142: 1, S0344: 1, S0422: 1, H0517: 1, L0762: 1, L0763: 1, L0761: 1, L0764: 1, L0768: 1, L0766: 1, L0649: 1, L0774: 1, L0651: 1, L0776: 1, L0655: 1, L0526: 1,							
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HODFD90	HODFD90R	1450	3 - 281	3625	Ser-22 to Gln-38.	L0518: 1, L0783: 1, L0809: 1, L0666: 1, L0663: 1, H0144: 1, H0593: 1, H0682: 1, H0648: 1, S0044: 1, H0214: 1, L0439: 1, L0749: 1, L0750: 1, L0753: 1, H0444: 1, H0445: 1, H0595: 1, L0581: 1, L0593: 1 and H0542: 1.		
HODFE81	HODFE81R	1451	296 - 433	3626		L0794: 3, L0776: 2, S0358: 1, H0615: 1, H0538: 1, L0662: 1, L0803: 1, L0805: 1, L0791: 1, L0663: 1, S0374: 1, H0658: 1 and L0758: 1.		
HODFI68	HODFI68R	1452	293 - 409	3627		L0766: 2, H0328: 1 and H0615: 1.		
HODFI14	HODFI14R	1453	2 - 259	3628	Phe-45 to Tyr-60, Arg-67 to Gln-74.			
HODFI52	HODFI52R	1454	97 - 225	3629	Pro-18 to Pro-23, Pro-37 to Val-42.	H0328: 1 and H0615: 1.		
HODFK30	HODFK30RA	1455	1 - 69	3630				
HODFK89	HODFK89R	1456	16 - 324	3631	Lys-69 to Asp-81.			
HODFL50	HODFL50R	1457	1 - 165	3632		H0615: 2, H0370: 1, H0328: 1 and L0749: 1.		

HODFL75	HODFL75R	1458	304 - 393	3633	Ala-2 to Trp-9.	H0615: 2		
HODFO16	HODFO16R	1459	251 - 565	3634		L0666: 3, H0615: 2, S0116: 1, H0675: 1, H0012: 1, L0055: 1,		
HODFO64	HODFO64R	1460	1 - 195	3635	Glu-12 to Gly-27, Gln-37 to Tyr-49.	S0438: 1, L0763: 1, L0667: 1, L0649: 1, L0803: 1, L0804: 1, L0659: 1, H0689: 1, H0659: 1, L0752: 1 and S0026: 1.		
HODFF51	HODFF51R	1461	11 - 439	3636	His-33 to Leu-39, Gly-49 to Glu-56, Ser-60 to Lys-143.			
HODFQ19	HODFQ19R	1462	1 - 519	3637	Leu-33 to Val-40, Lys-144 to Glu-152.			
HODFQ37	HODFQ37R	1463	2 - 535	3638	His-1 to Lys-12, Gln-17 to Leu-27, Val-69 to Asp-76, Asp-122 to Trp-128, Asp-141 to Glu-146, Ser-155 to His-164.			
HODFR72	HODFR72R	1464	84 - 512	3639		H0615: 2		
HODFU24	HODFU24R	1465	372 - 695	3640				
HODFU78	HODFU78R	1466	2 - 130	3641				
HODFV22	HODFV22R	1467	291 - 467	3642	Pro-1 to Asp-7.			
HODFV60	HODFV60R	1468	7 - 168	3643		H0328: 1, H0615: 1 and L0365: 1.		
HODFV69	HODFV69R	1469	64 - 210	3644		H0615: 3, H0693: 2.		



						H0266: 1, S0002: 1, L0790: 1, H0547: 1, S0152: 1, H0521: 1, H0696: 1, L0366: 1, S0194: 1 and S0276: 1.	
HODFV79	HODFV79R	1470	360 - 623	3645			
HODFV82	HODFV82R	1471	14 - 154	3646			
HODFV95	HODFV95R	1472	587 - 718	3647			
HODFY38	HODFY38R	1473	22 - 309	3648	Lys-8 to Tyr-26, Thr-67 to Met-73.	H0615: 2, S0444: 1, L0438: 1 and L0439: 1.	
HODGA29	HODGA29R	1474	186 - 308	3649	Val-1 to Ser-9, Gln-22 to Ser-29.		
HODGB69	HODGB69R	1475	3 - 95	3650			
HODGB78	HODGB78R	1476	91 - 225	3651	Thr-14 to Asn-19.		
HODGE22	HODGE22R	1477	129 - 407	3652			
HODGH30	HODGH30R	1478	25 - 132	3653	Thr-7 to Ser-14, Pro-28 to Gly-36.		
HODGH43	HODGH43R	1479	36 - 128	3654	His-8 to Gly-18, Phe-25 to Gly-30.		
HODGH65	HODGH65R	1480	2 - 166	3655		H0615: 2	
HODGL65	HODGL65R	1481	127 - 300	3656		L0754: 2, L0756: 2, H0615: 1, L0438: 1 and L0747: 1.	
HODGN53	HODGN53R	1482	2 - 583	3657	Lys-1 to Thr-7, Ser-13 to Arg-33, Val-56 to Lys-63, Phe-143 to Thr-148.	L0741: 4, H0615: 2, L0769: 2, L0793: 2, H0328: 1, S0144: 1, L0794: 1, L0499: 1, L0805: 1, L0438: 1 and L0755: 1.	

HODGO02	HODGO02R	1483	361 - 561	3658			
HODGO09	HODGO09R	1484	1 - 348	3659		H0615: 2 and L0779: 1.	
HODGO21	HODGO21R	1485	2 - 193	3660	Glu-23 to Val-28, Arg-56 to Ser-64.		
HODGP53	HODGP53R	1486	1 - 198	3661			
HODGQ52	HODGQ52R	1487	9 - 131	3662			
HODGS83	HODGS83R	1488	205 - 354	3663			
HODGW91	HODGW91R	1489	182 - 3	3664	Lys-1 to Gly-12, Pro-25 to Thr-37, Ser-46 to Gly-51.		
HODGX46	HODGX46R	1490	358 - 513	3665		H0615: 3 and L0766: 1.	
HODGX91	HODGX91R	1491	219 - 572	3666			
HODGY90	HODGY90R	1492	379 - 573	3667			
HODGZ63	HODGZ63R	1493	1 - 504	3668	Pro-30 to Asn-35, Arg-39 to Asn-57, Ser-62 to Ile-67, Glu-73 to Arg-81, Lys-89 to Lys-99.	L0805: 19, L0794: 13, L0766: 12, L0740: 11, L0747: 11, L0779: 11, L0803: 8, H0521: 7, L0439: 7, L0731: 7, L0605: 7, S0474: 6, S0422: 6, L0769: 6, L0776: 5, L0665: 5, L0748: 5, L0758: 5, H0618: 4, S0010: 4, L0771: 4, L0789: 4, S3014: 4, H0341: 3, H0615: 3, L0659: 3, S0052: 3, L0438: 3.	

H0658: 3, H0436: 3, L0752: 3, L0759: 3, S0360: 2, S0222: 2, H0574: 2, H0599: 2, H0196: 2, H0050: 2, H0266: 2, H0708: 2, H0135: 2, H0038: 2, H0616: 2, L0804: 2, H0144: 2, S0374: 2, L0352: 2, H0682: 2, L0743: 2, L0744: 2, L0751: 2, L0749: 2, L0756: 2, S0424: 2, H0624: 1, T0002: 1, H0657: 1, L0785: 1, H0671: 1, S0442: 1, S0408: 1, H0733: 1, S0278: 1, H0431: 1, H0013: 1, S0280: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, L0040: 1, H0123: 1, L0471: 1, H0630: 1, H0375: 1, S0003: 1, H0252: 1, L0483: 1, T0006: 1, H0644: 1, H0673: 1, S0036: 1, H0163: 1, H0040: 1, H0551: 1, H0412: 1, H0413: 1, S0038: 1,						
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								H0509: 1, H0131: 1, S0344: 1, L0598: 1, L0369: 1, L0763: 1, L0770: 1, L0638: 1, L0667: 1, L0662: 1, L0363: 1, L0768: 1, L0775: 1, L0375: 1, L0806: 1, L0653: 1, L0655: 1, L0809: 1, S0126: 1, H0689: 1, H0684: 1, H0660: 1, H0672: 1, H0710: 1, H0522: 1, S0146: 1, S3012: 1, S0027: 1, S0028: 1, L0745: 1, L0750: 1, L0780: 1, L0753: 1, H0445: 1, L0362: 1, L0361: 1, H0653: 1, H0423: 1 and H0506: 1.
HODGZ76	HODGZ76R	1494	12 - 179	3669				
HODHD23	HODHD23R	1495	3 - 134	3670			Pro-8 to Asn-18, Gln-25 to Glu-30.	
HODHD64	HODHD64R	1496	14 - 205	3671			Tyr-33 to Tyr-38.	H0615: 2
HODHE36	HODHE36R	1497	190 - 366	3672				H0328: 1 and H0615: 1.
HODHE54	HODHE54R	1498	3 - 515	3673			Glu-7 to Tyr-12, Glu-44 to Asp-49, Pro-57 to Gly-64, Leu-69 to Arg-74.	

HODHE88	HODHE88R	1499	2 - 166	3674	Thr-76 to Tyr-86. Lys-42 to Asp-48.	H0328: 1 and H0615: 1.		
HODHG56	HODHG56R	1500	82 - 300	3675	Glu-11 to Trp-17, Val-22 to Ser-29, Asp-45 to Lys-52.			
HODHI56	HODHI56R	1501	281 - 499	3676	Trp-12 to Ile-18, Gln-40 to Leu-54.			
HODHK82	HODHK82R	1502	71 - 238	3677	Lys-17 to Ala-24.			
HODHK86	HODHK86R	1503	2 - 292	3678	Glu-1 to Gln-7, Met-64 to Gly-69.			
HODIG29	HODIG29R	1504	2 - 115	3679				
HODIL36	HODIL36RA	1505	218 - 472	3680	Lys-9 to Ser-15, Val-42 to Thr-50.	H0261: 1 and H0615: 1.		
HODIZ09	HODIZ09R	1506	31 - 594	3681	Phe-116 to Met-126.	AR104: 14, AR096: 13, AR089: 11, AR060: 10, AR055: 6, AR061: 5 H0615: 3, H0658: 2, H0661: 1 and L0355: 1.		
HODKB19	HODKB19R	1507	504 - 746	3682				
HODKB82	HODKB82R	1508	3 - 344	3683	Gln-40 to Glu-48, Phe-68 to Arg-77, Ile-108 to Glu-113.			
HODKB89	HODKB89R	1509	73 - 216	3684				
HODKB93	HODKB93R	1510	1 - 159	3685	Arg-33 to Thr-38.			
HODKC29	HODKC29R	1511	1 - 486	3686		S0360: 9, L0642: 5, L0752: 5, L0662: 4, L0659: 4, L0666: 4.		

S0007: 3, L0646: 3, L0776: 3, L0750: 3, H0662: 2, S0444: 2, S0222: 2, L0483: 2, L0764: 2, L0648: 2, L0775: 2, L0665: 2, H0648: 2, L0779: 2, S0031: 2, S0110: 1, H0638: 1, S0418: 1, S0376: 1, S0408: 1, L0717: 1, H0331: 1, H0574: 1, S0414: 1, H0492: 1, H0156: 1, L0021: 1, S0049: 1, H0310: 1, H0327: 1, H0373: 1, T0010: 1, S6028: 1, H0615: 1, S0366: 1, S0036: 1, H0038: 1, H0616: 1, H0413: 1, T0041: 1, H0494: 1, S0438: 1, S0440: 1, H0509: 1, S0142: 1, S0210: 1, L0598: 1, L0762: 1, L0640: 1, L0631: 1, L0772: 1, L0766: 1, L0551: 1, L0774: 1, L0664: 1, H0547: 1, S0126: 1, H0659: 1, S0378: 1, S0152: 1,
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							H0696: 1, S3014: 1, L0439: 1, L0740: 1, L0754: 1, L0756: 1, L0780: 1, L0755: 1, L0758: 1, S0434: 1 and H0667: 1.			
HODKC67	HODKC67R	1512	242 - 373	3687			H0615: 2			
HODKD20	HODKD20R	1513	43 - 213	3688		Arg-11 to Ser-17, Leu-51 to Pro-57.				
HODKD64	HODKD64R	1514	413 - 237	3689		Pro-5 to Asn-10.	H0615: 2 and H0696: 1.			
HODKE85	HODKE85R	1515	314 - 412	3690		Ser-18 to Ile-23.	H0615: 2 and H0328: 1.			
HODKF91	HODKF91R	1516	244 - 417	3691		Lys-12 to Ser-18.				
HODKG09	HODKG09R	1517	28 - 240	3692						
HODKJ77	HODKJ77R	1518	452 - 595	3693			H0615: 2			
HODKK26	HODKK26R	1519	2 - 415	3694		Asp-40 to Gly-45, Leu-59 to Glu-67, Lys-95 to Ile-105, Asp-113 to Gly-118.				
HODKK40	HODKK40R	1520	1 - 642	3695		Ser-15 to Phe-23, Lys-41 to Tyr-46, Pro-48 to Val-59, Thr-90 to Ile-103, Ser-110 to Arg-116, Pro-123 to Lys-137, Lys-157 to Glu-167, Arg-178 to Arg-194.				
HODKK73	HODKK73R	1521	3 - 344	3696		Phe-106 to Pro-114.				

HODKK77	HODKK77R	1522	272 - 433	3697	Ser-8 to Asn-15.	H0615: 2		
HODKLS6	HODKLS6R	1523	439 - 579	3698				
HODKM25	HODKM25R	1524	36 - 149	3699				
HODKM31	HODKM31R	1525	1 - 210	3700				
HODKN65	HODKN65R	1526	2 - 409	3701				
HOECR39	HOECR39R	1527	20 - 328	3702		H0659: 4, L0770: 3, L0747: 3, H0663: 2, S0360: 2, L0521: 2, L0776: 2, S0126: 2, H0658: 2, S0406: 2, L0755: 2, L0758: 2, L0759: 2, S0242: 2, T0002: 1, H0686: 1, H0341: 1, L0616: 1, S0354: 1, S0408: 1, H0052: 1, H0009: 1, H0083: 1, H0266: 1, H0615: 1, L0483: 1, H0040: 1, H0561: 1, S0422: 1, L0520: 1, L0625: 1, L0662: 1, L0766: 1, L0649: 1, L0519: 1, H0648: 1, S3014: 1, L0748: 1 and L0779: 1.		
HOFAB77	HOFAB77R	1528	1 - 399	3703	Glu-10 to Ala-26, Lys-31 to Tyr-43, Lys-45 to Glu-50, Ile-96 to Lys-102, Asp-123 to Gly-128.			



HOFMF37	HOFMF37R	1529	95 - 277	3704					
HOFMF79	HOFMF79RA	1530	85 - 219	3705					
HOFMJ88	HOFMJ88R	1531	2 - 397	3706	Arg-1 to Phe-16.				
HOFMJ93	HOFMJ93R	1532	1 - 162	3707	His-3 to Ala-19.				
HOFMM84	HOFMM84R	1533	1 - 204	3708					
HOFMN93	HOFMN93R	1534	69 - 323	3709	Glu-8 to Thr-14.				
HOFMP59	HOFMP59R	1535	1 - 423	3710	Ala-5 to Arg-14.				
HOFMT68	HOFMT68R	1536	50 - 289	3711	Asn-41 to Lys-56.				
HOFMT69	HOFMT69R	1537	1 - 264	3712					
HOFMU92	HOFMU92R	1538	1 - 369	3713					
HOFMV06	HOFMV06R	1539	3 - 296	3714	Asp-1 to Leu-10.				
HOFNF63	HOFNF63R	1540	2 - 481	3715	Arg-1 to Arg-8, Ala-22 to Met-31, Asp-51 to Gln-56.				
HOFNF76	HOFNF76R	1541	2 - 421	3716	Arg-1 to Ala-6, Ser-68 to Arg-73, Arg-87 to Ala-93.				
HOFNG51	HOFNG51R	1542	25 - 387	3717	Arg-1 to Cys-10, Glu-75 to Arg-94, Arg-99 to Gly-115.				
HOFNK44	HOFNK44R	1543	1 - 186	3718	Lys-52 to Asp-57.				
HOFNY53	HOFNY53R	1544	2 - 232	3719	Arg-1 to Phe-7, Gly-24 to Arg-36.				
HOFNB65	HOFNB65R	1545	1 - 453	3720					
HOFNB79	HOFNB79RP 00A	1546	2 - 682	3721	Val-31 to Val-38, Phe-46 to Ile-59, Arg-120 to Gln-126.				
HOFNE22	HOFNE22R	1547	1 - 345	3722					
HOFNF47	HOFNF47R	1548	3 - 326	3723	Asn-49 to Leu-54.				

HOFOF56	HOFOF56R	1549	1 - 351	3724	Ala-4 to Arg-11.			
HOGAC46	HOGAC46R	1550	35 - 193	3725	Ala-1 to Tyr-6, Ile-17 to Ser-32.			
HOGAQ03	HOGAQ03R	1551	110 - 286	3726	Pro-34 to Lys-39.	HO436: 44, L0748: 14, L0439: 9, L0747: 9, L0769: 7, L0803: 7, L0740: 7, L0755: 7, L0758: 7, L0761: 6, L0662: 6, L0794: 6, L0766: 6, L0663: 6, L0779: 6, H0542: 6, L0717: 5, L0756: 5, H0052: 4, H0135: 4, L0774: 4, L0659: 4, L0665: 4, L0777: 4, L0780: 4, L0731: 4, L0759: 4, H0556: 3, S0420: 3, S0410: 3, S0422: 3, L0763: 3, L0649: 3, L0804: 3, L0805: 3, L0776: 3, L0438: 3, H0547: 3, H0672: 3, H0539: 3, L0754: 3, L0757: 3, L0591: 3, H0422: 3, S0040: 2, S0114: 2, S0116: 2, H0255: 2, H0619: 2, H0486: 2, H0039: 2, H0013: 2, H0635: 2, H0253: 2,		

H0318: 2, S0049: 2, H0046: 2, L0041: 2, H0688: 2, H0428: 2, H0628: 2, L0055: 2, H0040: 2, H0087: 2, H0488: 2, H0100: 2, T0042: 2, H0529: 2, L5566: 2, L0667: 2, L0771: 2, L0768: 2, L0375: 2, L0517: 2, L0809: 2, L0666: 2, H0520: 2, H0519: 2, H0593: 2, S0380: 2, H0694: 2, L0742: 2, L0751: 2, L0750: 2, S0434: 2, S0436: 2, L0361: 2, L0601: 2, L0603: 2, S0424: 2, H0506: 2, H0265: 1, H0650: 1, H0657: 1, H0656: 1, L0760: 1, H0341: 1, S0001: 1, H0663: 1, H0662: 1, S0418: 1, S0356: 1, S0408: 1, H0580: 1, S0007: 1, H0229: 1, S0045: 1, S0046: 1, S0132: 1, H0351: 1, H0411: 1, H0431: 1, H0592: 1, H0497: 1,						
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H0069: 1, S0280: 1, H0118: 1, H0618: 1, S0010: 1, H0421: 1, H0251: 1, H0204: 1, H0572: 1, H0050: 1, H0012: 1, H0373: 1, H0051: 1, T0010: 1, H0354: 1, H0252: 1, H0328: 1, H0622: 1, H0181: 1, H0617: 1, H0673: 1, H0038: 1, H0634: 1, H0616: 1, H0155: 1, H0264: 1, S0038: 1, H0022: 1, H0625: 1, H0538: 1, S0210: 1, S0002: 1, L0762: 1, L0770: 1, L5565: 1, L0373: 1, L0800: 1, L0642: 1, L0374: 1, L0764: 1, L0364: 1, L0388: 1, L0635: 1, L0637: 1, L0526: 1, L0518: 1, L0382: 1, L0789: 1, L0792: 1, L0664: 1, H0723: 1, H0726: 1, S0126: 1, H0689: 1, H0690: 1, H0682: 1, H0435: 1, H0670: 1, H0648: 1, S0330: 1,
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H0GBE60	H0GBE60R	1552	265 - 591	3727	Asp-15 to His-22.	S0378: 1, S0152: 1, S0406: 1, H0555: 1, H0678: 1, L0744: 1, L0752: 1, L0753: 1, H0445: 1, H0707: 1, L0593: 1, L0595: 1, S0011: 1, H0668: 1, S0026: 1, H0665: 1, S0196: 1, H0543: 1 and H0677: 1. L0777: 7, L0747: 6, L0779: 6, L0748: 5, L0776: 4, L0749: 4, L0770: 3, L0766: 3, L0759: 3, S0442: 2, L0769: 2, L0761: 2, L0771: 2, L0774: 2, L0527: 2, L0783: 2, L0665: 2, L0757: 2, L0758: 2, S0412: 2, H0402: 1, S0444: 1, H0438: 1, H0587: 1, H0333: 1, L0471: 1, H0674: 1, H0646: 1, L0763: 1, L0643: 1, L0764: 1, L0662: 1, L0363: 1, L0767: 1, L0387: 1, L0803: 1, L0526: 1, L0647: 1, L0663: 1, H0690: 1,		
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							H0435: 1, S0330: 1, S0406: 1, L0740: 1, L0751: 1, L0780: 1, S0436: 1 and L0596: 1.			
HOGCF48	HOGCF48R	1553	230 - 436	3728						
HOGCG83	HOGCG83R	1554	50 - 409	3729						
HOGCH23	HOGCH23R	1555	58 - 207	3730						
HOGCI28	HOGCI28R	1556	3 - 332	3731			H0435: 4, H0726: 3, L0748: 3, H0355: 2, H0059: 2, L0525: 2, H0713: 1, H0717: 1, H0586: 1, H0427: 1, H0575: 1, H0744: 1, H0327: 1, H0271: 1, H0622: 1, H0087: 1, S0438: 1, L0792: 1, H0593: 1, H0555: 1, L0698: 1 and H0506: 1.			
HOGCI10	HOGCI10R	1557	10 - 480	3732			H0052: 1, H0135: 1, H0429: 1, H0519: 1 and H0435: 1.			
HOGCI42	HOGCI42R	1558	3 - 254	3733		Val-6 to Ala-11.				
HOGCI55	HOGCI55R	1559	7 - 507	3734		Thr-56 to Gln-61, Lys-87 to Lys-95, Thr-110 to Arg-118.				
HOGCP07	HOGCP07R	1560	3 - 143	3735						
HOGCP86	HOGCP86RA	1561	1 - 486	3736		Arg-11 to Arg-16, Pro-46 to Thr-52, His-58 to Pro-65,				

HOGCT44	HOGCT44R	1562	1 - 183	3737	Ala-71 to Trp-77, Pro-134 to Gly-146, His-14 to Phe-20, Ser-37 to Gly-60.
HOGCV85	HOGCV85R	1563	3 - 443	3738	Gly-20 to Leu-28, Val-33 to Gly-41, Thr-43 to Gly-55, Val-58 to Arg-66.
HOGCV93	HOGCV93R	1564	22 - 513	3739	Lys-7 to Thr-13, Asp-24 to Thr-30, Gly-39 to Glu-52, Leu-70 to Arg-76, Phe-87 to Tyr-92.
HOGCY12	HOGCY12R	1565	2 - 235	3740	Lys-2 to Thr-8, Asp-19 to Thr-25, Gly-34 to Glu-47, Leu-65 to Arg-71.
HOGCY58	HOGCY58R	1566	3 - 338	3741	Asn-5 to Gln-12, Gln-19 to Glu-25, Arg-78 to Glu-99, Thr-106 to Ala-111.
HOGCY74	HOGCY74R	1567	3 - 260	3742	Arg-1 to Asn-8, Phe-18 to His-24, Asp-57 to Lys-62, Lys-76 to Asp-81.
HOGDD29	HOGDD29R	1568	3 - 152	3743	
HOGDE77	HOGDE77R	1569	95 - 184	3744	
HOGDG03	HOGDG03R	1570	2 - 397	3745	Thr-9 to His-19, Leu-35 to Ala-46.

HOGDG76	HOGDG76R	1571	3 - 497	3746	Pro-55 to Pro-60, Gly-69 to Arg-74, Arg-35 to Gly-40, His-51 to Lys-56, Phe-94 to Ser-99, Thr-102 to Gly-107, Pro-113 to Ser-120.	L0665: 3, H0682: 2, H0435: 2, L0751: 2, H0663: 1, L0021: 1, H0647: 1, L0806: 1, L0664: 1, H0683: 1, H0670: 1 and H0660: 1.		
HOGDI44	HOGDI44R	1572	1 - 342	3747	Gln-58 to Gln-64, Cys-73 to Arg-88.			
HOGDI49	HOGDI49R	1573	124 - 357	3748				
HOGDO25	HOGDO25R	1574	2 - 322	3749	Pro-38 to Met-44.			
HOGDO58	HOGDO58R	1575	74 - 244	3750	Pro-6 to Tyr-17, Val-39 to Gln-45.			
HOGDP10	HOGDP10R	1576	3 - 299	3751	Glu-3 to Gln-14.			
HOGDQ54	HOGDQ54R	1577	3 - 335	3752				
HOGDQ95	HOGDQ95R	1578	22 - 492	3753	Arg-9 to Val-17.			
HOGDR70	HOGDR70R	1579	48 - 470	3754	Arg-9 to Arg-18, Arg-27 to Arg-35, Arg-47 to Asp-55, Asp-78 to Lys-83.			
HOGDV93	HOGDV93R	1580	1 - 417	3755	Gly-1 to Ala-6, Glu-54 to Ile-62, Asp-89 to Thr-98.			
HOGEA27	HOGEA27R	1581	2 - 241	3756				
HOGED85	HOGED85R	1582	3 - 326	3757	Tyr-94 to Phe-99.			
HOG EK25	HOG EK25R	1583	2 - 325	3758				
HOG EN30	HOG EN30R	1584	2 - 325	3759	Leu-3 to Arg-19.			
HOG EN55	HOG EN55R	1585	2 - 226	3760				



HOGEP46	HOGEP46R	1586	3 - 212	3761	Gly-17 to Asn-27, Ser-51 to His-61.	L0521: 1, L0662: 1 and H0435: 1.		
HOGEP69	HOGEP69R	1587	2 - 223	3762		H0295: 8, H0617: 7, L0665: 7, H0435: 7, H0592: 6, H0494: 6, L0439: 6, L0751: 6, S0360: 5, S0046: 4, H0587: 4, H0012: 4, H0264: 4, L0662: 4, S0406: 4, H0586: 3, H0620: 3, H0031: 3, H0551: 3, S0440: 3, S0002: 3, L0763: 3, L0648: 3, L0649: 3, L0774: 3, L0659: 3, H0520: 3, H0547: 3, H0689: 3, H0660: 3, S0328: 3, S0330: 3, L0748: 3, L0754: 3, L0750: 3, H0294: 2, H0650: 2, H0341: 2, S0356: 2, S0132: 2, H0370: 2, H0333: 2, H0643: 2, L0623: 2, H0706: 2, H0081: 2, H0039: 2, H0553: 2, H0181: 2, H0068: 2, H0135: 2, H0040: 2, H0646: 2, L0640: 2,		
HOGET60	HOGET60R	1588	2 - 376	3763				

L0637: 2, L0641: 2, L0764: 2, L0804: 2, L0806: 2, L0776: 2, L0657: 2, L0809: 2, L0664: 2, H0519: 2, H0682: 2, H0670: 2, H0672: 2, L0744: 2, L0740: 2, S0434: 2, H0677: 2, H0483: 1, H0305: 1, H0638: 1, S0442: 1, S0358: 1, S0376: 1, S0410: 1, H0411: 1, H0550: 1, H0455: 1, H0600: 1, H0101: 1, H0575: 1, H0590: 1, H0618: 1, H0052: 1, H0234: 1, H0597: 1, H0121: 1, L0041: 1, H0123: 1, H0246: 1, H0290: 1, H0292: 1, H0428: 1, H0622: 1, T0023: 1, H0030: 1, H0316: 1, H0059: 1, H0100: 1, S0306: 1, T0090: 1, H0649: 1, S0210: 1, S0426: 1, L0646: 1, L0765: 1, L0771: 1, L0626: 1, L0768: 1, L0364: 1, L0766: 1,						
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H0GEU84	H0GEU84R	1589	3 - 368	3764	Pro-8 to Asn-34, Ala-39 to Arg-53.	L0375: 1, L0651: 1, L0378: 1, L0653: 1, L0655: 1, L0558: 1, L0635: 1, L0518: 1, L0383: 1, L0792: 1, L0663: 1, S0006: 1, H0696: 1, S0044: 1, S3014: 1, L0743: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, H0216: 1, H0543: 1, S0424: 1 and H0506: 1.		
H0GEW58	H0GEW58R	1590	1 - 417	3765		AR096: 1, AR104: 1, AR055: 0, AR061: 0, AR060: 0, AR089: 0, S0250: 1 and H0435: 1.		
H0GEW72	H0GEW72R	1591	256 - 333	3766				
H0GEZ03	H0GEZ03R	1592	52 - 144	3767				
H0GEZ27	H0GEZ27R	1593	2 - 307	3768				
H0HDI15	H0HDI15R	1594	3 - 170	3769				
H0OHB44	H0OHB44R	1595	128 - 313	3770	Ser-1 to Gln-6, Ser-51 to Thr-56.			
H0OHC27	H0OHC27R	1596	9 - 194	3771	Gly-4 to Lys-10.			
H0OHI69	H0OHI69R	1597	9 - 152	3772	Gly-4 to Lys-10.	H0637: 2, H0413: 1 and H0648: 1.		
H0OHK47	H0OHK47R	1598	126 - 260	3773				
H0OHL15	H0OHL15R	1599	60 - 383	3774				
H0OHL19	H0OHL19R	1600	14 - 205	3775	Pro-17 to Ser-24.			

HOOHL68	HOOHL68R	1601	271 - 570	3776	<p>L0748: 11, L0666: 5,  L0750: 5, L0805: 4,  L0663: 4, L0664: 4,  L0439: 4, L0662: 3,  L0758: 3, L0005: 2,  H0587: 2, H0318: 2,  H0052: 2, H0024: 2,  H0553: 2, L0770: 2,  L0648: 2, L0766: 2,  L0497: 2, L0665: 2,  H0519: 2, H0648: 2,  L0740: 2, L0731: 2,  L0593: 2, H0677: 2,  H0170: 1, H0583: 1,  H0638: 1, H0586: 1,  H0331: 1, H0486: 1,  H0013: 1, H0156: 1,  H0036: 1, L0040: 1,  H0620: 1, S6028: 1,  H0328: 1, H0615: 1,  T0023: 1, S0036: 1,  H0591: 1, H0040: 1,  T0067: 1, S0472: 1,  H0529: 1, L0761: 1,  L0764: 1, L0771: 1,  L0649: 1, L0803: 1,  L0804: 1, L0775: 1,  L0806: 1, L0655: 1,  L0657: 1, L0659: 1,  L0790: 1, H0144: 1,</p>
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							L0438: 1, H0672: 1, H0522: 1, S0392: 1, L0747: 1, L0749: 1, L0756: 1, L0752: 1, H0445: 1, L0591: 1 and H0422: 1.		
HO0HP84	HO0HP84R	1602	1 - 186	3777					
HO0HQ09	HO0HQ09R	1603	161 - 313	3778			Lys-1 to Lys-13.		
HO0HQ83	HO0HQ83R	1604	67 - 399	3779			Pro-10 to Ser-37, Gln-41 to Thr-57, Arg-62 to Thr-68, Pro-80 to Lys-85, Gly-99 to Gly-106.		
HO0HR81	HO0HR81R	1605	336 - 500	3780					
HO0HS67	HO0HS67R	1606	69 - 281	3781					
HO0HS82	HO0HS82R	1607	53 - 145	3782					
HO0HT13	HO0HT13R	1608	3 - 194	3783			Glu-1 to Glu-11.		
HO0HX50	HO0HX50R	1609	17 - 163	3784					
HO0IA46	HO0IA46R	1610	3 - 239	3785					
							L0770: 12, H0657: 10, H0659: 9, L0776: 8, H0648: 8, L0755: 8, L0774: 7, S0410: 6, H0494: 6, L0769: 6, L0750: 6, S0408: 5, S0440: 5, L0775: 5, S0376: 4, S0360: 4, L0748: 4, L0777: 4, L0752: 4, L0759: 4, H0341: 3, S0358: 3.		



H00IA57	H00IA57R	1611	251 - 361	3786			H0375: 1, H0428: 1, H0708: 1, H0634: 1, H0412: 1, H0413: 1, L0475: 1, H0386: 1, L0598: 1, H0529: 1, L0520: 1, L0762: 1, L0371: 1, L0638: 1, L0373: 1, L0646: 1, L0773: 1, L0521: 1, L0662: 1, L0805: 1, L0655: 1, L0517: 1, L0540: 1, L0542: 1, L0526: 1, L0809: 1, L0545: 1, L0791: 1, L0663: 1, L0665: 1, H0691: 1, H0547: 1, H0690: 1, H0435: 1, H0660: 1, H0651: 1, S0380: 1, S0406: 1, L0749: 1, L0780: 1, H0668: 1, H0653: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1 and H0506: 1.	
H00IA57	H00IA57R	1611	251 - 361	3786			L0803: 14, L0439: 9, L0752: 9, L0666: 7, L0659: 5, S0328: 5, L0756: 5, L0731: 5, L0794: 4, S0412: 4, S0360: 3, H0634: 3,	





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HO0IF71	HO0IF71R	1614	3 - 389	3789					
HO0IG71	HO0IG71R	1615	2 - 301	3790					
HO0IK04	HO0IK04R	1616	2 - 172	3791	Ile-1 to Lys-7, Gly-13 to Lys-19, Pro-59 to Arg-76, Val-50 to Arg-56.				
HO0IL33	HO0IL33R	1617	97 - 264	3792	Leu-41 to Ser-52.				
HO0IO53	HO0IO53R	1618	3 - 164	3793					
HO0IR94	HO0IR94R	1619	20 - 109	3794					
HO0JA64	HO0JA64R	1620	272 - 400	3795					
HO0JB36	HO0JB36R	1621	118 - 315	3796					
HO0JE93	HO0JE93R	1622	125 - 268	3797					
HO0JK91	HO0JK91R	1623	80 - 211	3798					
HO0JN84	HO0JN84R	1624	1 - 189	3799	Asp-48 to Thr-54, Glu-57 to Ser-63.	L0758: 14, L0747: 10, L0752: 10, L0731: 10, L0663: 9, H0547: 9, L0740: 9, L0666: 8, H0046: 7, S0126: 7, L0748: 7, H0539: 6, L0439: 6, L0759: 6, L0595: 6, H0543: 6, H0050: 5, H0031: 5, H0648: 5, S0328: 5, H0624: 4, H0657: 4, H0656: 4, S0007: 4, H0549: 4, H0550: 4, H0591: 4, H0616: 4, H0551: 4, L0769: 4, L0662: 4, L0659: 4, H0144: 4, L0438: 4,			